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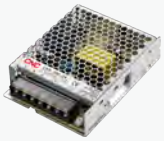

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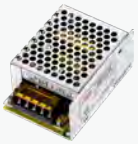

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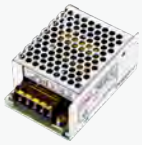

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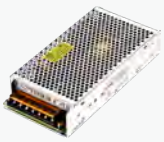

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JKW-32

Power Supply

CNC ELECTRIC

SBW High Power Compensation Single, Three Phase Voltage Stabilizer

General

SBW three phases AC voltage stabilizer is a high power adjustable automatic voltage compensation regulating power device. When voltage from support network is varied due to loading current influence, it automatically regulates the output voltage to ensure the normal function of the electric equipments. Compared with other types of voltage stabilizer, this series product has large capacity, high efficiency, no waveform distortion, stable voltage regulation and other advantages. It supports wide load application, instantaneous overload and continuous long work, manual/auto switch, can also provide over voltage, lack phase, phase order and machine faulty automatic protection.

Convenient assemble and reliable operating (can be digital display/analog display).

Technical data

Input voltage	Single phase: 175V-265V Three phases: 300V-456V
Output voltage	Single phase: 220V Three phases: 380V
Output deviance	1-5% Adjustable
Frequency	50Hz~60Hz
Efficiency	≥95%
Response time	≤1.5S
Ambient temperature	-10°C~+40°C
Insulation resistance	≥5MΩ
Overload	Double rated current, one min
Waveform distortion	Non-lack fidelity wareform
Protection	Overvoltage, Overcurrent, Lack phases

Ordering information

Model	Output Power(KVA)	Outline(cm)	Weight(kg)
SBW-50K	50	80×54×135	250
SBW-60K	60	80×54×135	255
SBW-100K	100	85×62×150	357
SBW-150K	150	100×70×165	482
SBW-180K	180	100×70×165	515
SBW-200K	200	100×70×165	562
SBW-225K	225	110×80×185	670
SBW-250K	250	110×80×185	710
SBW-300K	300	110×80×195	755
SBW-320K	320	110×80×195	810
SBW-400K	400	100×80×200 Double cabinets	1175
SBW-500K	500	100×80×200 Double cabinets	1510
SBW-600K	600	100×80×200 Double cabinets	1790

SVC Single-phase Voltage Stabiliz

General

SVC series full-automatical voltage regulator consist of contact autotransformer, servomotor, automatic control circuit etc. When grid voltage or load is changed, automatic sampling control circuit sends a signal to the drive servomotor, to adjust the position of the self coupling voltage regulator for carbon brush, so that the output voltage rating can reach the stable state.

This product has the waveform distortionless, reliable performance, long-term operation and other characteristics, such as time delay, over voltage, undervoltage protection. It can be widely used in electricity where stable voltage is needed, it is an ideal voltage stabilized supply to ensure the normal operation of electrical equipment.

Technical data

Input voltage	150V-250V
Output voltage	220V
Output deviance	±3%
Frequency	50Hz~60Hz
Efficiency	≥90%
Response time	≤1S
Ambient temperature	-10°C~+40°C
Insulation resistance	≥5MΩ
Waveform distortion	Non-lack fidelity wareform
Protection	Overvoltage, Overcurrent

F

Ordering information

Model	Weight(kg)	Outline(cm)	QTY
SVC-500VA	4	19×16×14	4
SVC-1000VA	5.5	21×19×17	4
SVC-1500VA	5.8	21×19×17	4
SVC-2000VA	10	29×24×20	2
SVC-3000VA	12	29×24×25	2
SVC-5000VA	15	36×22×29	2
SVC-7000VA	16.5	36×22×29	2
SVC-10000VA	27	42×24×36	1
SVC-15000VA	64	42×38×76	1
SVC-20000VA	70	42×38×76	1
SVC-30000VA	95	45×43×87	1
SVC-5000VA(vertical)	17	32×28×46	1
SVC-10000VA(vertical)	36	36×28×51	1

SVC Three-phase Voltage Stabilizer

General

SVC series three phases high precision automatic voltage stabilizer is combined with SVC single phase high precision automatic voltage stabilizer. Three phases adjust individually to guarantee steady safe voltage in per phase. The incoming power of network is three phases four wires system, starlike (Y) connection, the output power can be made in three phases four wires or three phases three wires, three ampere meters indicate the output current per phase, testing the outline voltage of per phase by a switch & a voltage meter shift.

Technical data

Input voltage	280V-430V
Output voltage	380V
Output deviance	±3%
Frequency	50Hz~60Hz
Efficiency	≥90%
Response time	≤1S
Ambient temperature	-10°C~+40°C
Insulation resistance	≥5MΩ
Waveform distortion	Non-lack fidelity wareform
Protection	Overvoltage, Overcurrent

F

Ordering information

Model	Rated capacity(KVA)	Weight(kg)	Outline(cm)
SVC-1.5K	1.5	20	48.5×22.5×17
SVC-3K	3	24	48.5×22.5×17
SVC-4.5K	4.5	28	48.5×22.5×17
SVC-6K	6	34	36×28×68
SVC-9K	9	43	38×32×78
SVC-15K	15	68	52×40×86
SVC-20K	20	85	49×46×97
SVC-30K	30	91	64×57×118
SVC-40K	40	175	64×57×118
SVC-50K	50	185	64×57×118
SVC-60K	60	196	64×57×118
SVC-80K	80	233	67×55×132
SVC-100K	100	257	81×70×147

AVR Household Voltage Stabilizer (Relay Type)

General

AVR series full-automatic ac voltage regulator is a newly designed product on the basis of SVC series product. It is designed with good functions, such as time delay, over voltage, undervoltage etc, Using relay switch output transformer tap with response and low energy consumtion that can be widely used where need stable voltage like household, hospital, office, industrial automation and so on.

Technical data

Input voltage		AVR-500VA	AVR-1000VA	AVR-1500VA	AVR-2000VA	AVR-3000VA	AVR-5000VA	AVR-8000VA	AVR-10KVA
Output voltage		500VA	1000VA	1500VA	2000VA	3000VA	5000VA	8000VA	10KVA
Input	Input voltage range	150-250V AC							
	Input frequency	50-60Hz							
Output	Output voltage	220V AC							
	Output precision	±8%							
Efficiency		95%							
Phase		Single phase							
Meter display status		Input voltage/Out put voltage							
Led display Status	Working	GREEN, Indicating power ON/OFF							
	Delaying	YELLOW, Indicating DELAY ON/OFF							
	Over-v	RED, Indicating if the machine is working regularly							
Environmental	Operating temperature	0~40°C							
	Storage temp erature	-15°C~45°C							
	Operating relative humidity	10% RH~102%RH; Non-condensing							
Physical	Packing size(cm)	47.5×26 ×37	38.5×29 ×44	38.5×29 ×44	38.5×29 ×44	47×40.5 ×27.5	47×40.5 ×27.5	47×24 ×27.5	47×24 ×27.5
	Qnty	6	4	4	4	2	2	1	1

TSD Hanging-style Voltage Stabilizer

General

TSD series servo type hanging automatic ac voltage stabilizer is a new and perfect design on the base of the SVC series products. It has excellent functions like over voltage, under voltage protection, main protection and steady voltage automatic shift, the hanging type installation can effectively use the space, as well as smooth appearance and color, can give users a flesh feeling. It can be widely used in most situations like home, hospital, office and where the voltage stability is required.

Technical data

Input voltage	150V-250V
Output voltage	220V
Output deviance	±3%
Frequency	50Hz~60Hz
Efficiency	≥90%
Response time	<1S
Ambient temperature	-10°C~+40°C
Insulation resistance	≥5MΩ
Waveform distortion	Non-lack fidelity wareform
Protection	Overvoltage, Overcurrent
The delay time	5±2min

Ordering information

Model	Rated capacity(KVA)	Weight(kg)	Outline(cm)
TSD-3000VA	3	27	39×26×15
TSD-5000VA	5	32	41×28×18
TSD-8000VA	8	40	41×28×18
TSD-10000VA	10	45	41×28×18
TSD-12000VA	12	51	44×32×20.5

TDGC2, TDGC2J, TSGC2, TSGC2J Voltage Regulator

General

This product is designed and developed with the international advanced compersation technology. It can keep the output voltage steady automatically when the network voltage is fluctuated or the load current is varied, which can ensure the consumer run smoothly. It has the advantage of large capacity, high efficiency, no waveform distortion, simple operation and maintenance, reliable running, full-capacity output under tower input voltage if compared with other voltage stabilizers. It is provided with over-voltage, over-current, phase sequence and so on protection function.

It is suitable for electric supply in small-sized plant, workshop and department in middle, large-sized mining enterprise, and it can be widely used in the precision machine tool, precision instrument, test device, elevator, imported electromechanical device, production flowlime in the mining enterprise, oil field, railway, building site, school, hospital, hotel, scientific research department and so on, it is also suitable for the users in the LV electric network end with low power voltage and big wave range.

Type designation

T □ G C □ - □ □

- Applicable area (TH-for wet tropical zone, TA-dry tropical zone)
- Rated capacity (kVA)
- Designation No.
- Contact type (“o” type)
- Dry type self cooling
- No. of phase (S-three phases, D-single phase)
- Power supply

F

TDGC2, TDGC2J, TSGC2, TSGC2J Voltage Regulator

Specifications & overall dimensions (mm)

TDGC2, TSGC2 Series contact voltage regulator

Specification & Capacity	Max output capacity (KVA)	Rated input voltage (V)	Rated output voltage (V)	Max output current (A)	Overall size (W×D×L) (mm)	QTY pcs	Package size (W×D×L) (mm)	Net weight (kg)	Gross weight (kg)	Phase
TDGC2-0.2	0.2	220V	0-250V	0.8	105×130×130	12	380×347×350	25	26.5	1
TDGC2-0.5	0.5			2	125×150×130	8	380×347×350	27	28	
TDGC2-1	1.0			4	180×200×210	4	435×255×465	25	26	
TDGC2-2	2.0			8	180×200×210	4	435×255×465	31.5	33	
TDGC2-3	3.0			12	210×230×235	2	490×275×270	21.5	23	
TDGC2-5	5.0			20	240×285×250	1	330×275×290	17.5	18	
TDGC2-10	10.0			40	240×335×400	1	390×295×505	34	40	
TDGC2-15	15.0			60	240×335×560	1	390×295×650	50	58	
TDGC2-20	20.0			80	240×340×590	1	390×295×650	53	60	
TSGC2-1.5	1.5	380V	0-430V	2	125×180×340	1	200×260×400	9.8	12	3
TSGC2-3	3.0			4	180×250×430	1	300×220×510	17	21.5	
TSGC2-6	6.0			8	180×250×460	1	300×220×560	22	27	
TSGC2-9	9.0			12	210×250×590	1	320×260×580	29	35	
TSGC2-15	15.0			20	240×330×560	1	390×295×650	48	56	
TSGC2-20	20.0			26.5	240×330×580	1	390×295×650	53	60	
TSGC2-30	30.0			40	350×420×1060	1	440×450×1170	138	150	

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TDGC2, TSGC2 Series contact voltage regulator

Specification & Capacity	Max output capacity (KVA)	Rated input voltage (V)	Rated output voltage (V)	Max output current (A)	Overall size (W×D×L) (mm)	QTY pcs	Package size (W×D×L) (mm)	Net weight (kg)	Gross weight (kg)	Phase
TDGC2J-0.5	0.5	220V	0-250V	2	130×150×160	8	330×295×455	30	31.5	1
TDGC2J-1	1.0			4	185×200×215	4	430×395×275	26	27.5	
TDGC2J-2	2.0			8	230×240×215	2	460×250×245	18	19.5	
TDGC2J-3	3.0			12	265×270×215	2	490×280×255	26	27	
TDGC2J-5	5.0			20	350×395×260	1	430×430×340	25	29	
TDGC2J-7	7.0			28	350×39*0×260	1	430×430×340	27	30.5	
TDGC2J-10	10.0			40	350×410×420	1	430×430×500	47.5	51	
TDGC2J-15	15.0			60	350×410×570	1	430×430×690	67	73	
TDGC2J-20	20.0			80	350×410×570	1	430×430×690	80	86	
TDGC2J-30	30.0			120	350×410×1080	1	440×440×1170	138	150	
TSGC2J-1.5	1.5	380V	0-430V	2	130×150×420	1	200×260×510	11	14.5	3
TSGC2J-3	3.0			4	200×185×510	1	210×230×570	19.5	22.5	
TSGC2J-6	6.0			8	230×240×510	1	280×280×570	28	32.5	
TSGC2J-9	9.0			12	265×270×510	1	285×330×590	39	44	
TSGC2J-15	15.0			20	350×395×570	1	440×430×690	66	72	
TSGC2J-20	20.0			27	350×395×570	1	440×430×690	80	86	
TSGC2J-30	30.0			40	350×430×1060	1	440×450×1170	138	150	

BK2 Control Transformer

General

BK series control transformer for 50~60Hz, voltage to 500V circuits, is used as the control power supply in machine tools, mechanical equipment, local lighting and power indicator light.

BK series control transformer adopts the advantage of similar products at home and abroad for many years as advanced manufacturing techniques and rigorous design, and advanced optimization methods terminals. It is designed with excellent performance, reliable operation, low power consumption. small size, wiring security, protection level high, wide applicability and soon. BK series is an ideal transformer power supply that can work under rated load for a long time.

Type designation

B K □ - □

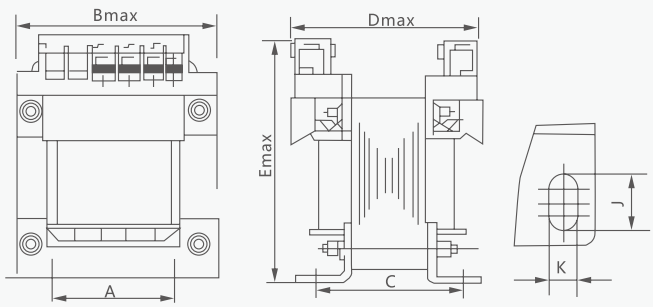
- Rated capacity (VA)
- Design No.
- Control
- Transformer

Operating conditions

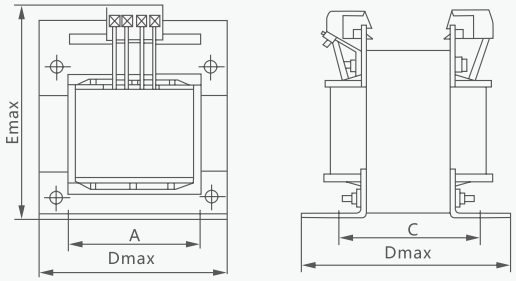
1. The ambient air temperature is from -5°C to +40°C, 24-hour average does not exceed +35°C;
2. Installation site altitude does not exceed 2000m;
3. Atmospheric relative humidity is less than 50% when the ambient air temperature is +40°C, and higher relative humidity is allowed at a lower temperature. In wet months, the average maximum humidity is 90%, while the monthly average minimum temperature is +25°C, and the change of gel surface temperature should be taken into account.

BK2 Control Transformer

Overall and mounting dimensions(mm)



BK2-25~300



BK2-500~2500

Item / Dimension / Model	Shape dimension			Mounting dimension		Install hole dimension	Note
	B max	D max	E max	A	C	K×J	
BK2-25	80	70	90	56	49±0.5	5×8	
BK2-50	80	72	90	56	51±0.5	5×8	
BK2-100	98	85	108	84	63±0.5	5×8	
BK2-150	105	87	110	76	65±0.5	5×8	
BK2-200	105	100	110	76	76±0.5	8×11	
BK2-250	105	105	110	76	81±0.5	8×11	
BK2-300	115	110	125	90	78±0.5	8×11	
BK2-400	135	120	140	100	85±0.5	8×13	
BK2-500	135	130	140	100	95±0.5	8×13	
BK2-600	152	125	150	120	90±0.5	8×13	
BK2-700	152	125	150	120	90±0.5	8×13	
BK2-800	152	140	150	120	105±0.5	8×13	
BK2-1000	152	155	165	120	120±0.5	8×13	
BK2-1500	152	165	165	120	130±0.5	8×13	Copper
BK2-1500	170	180	195	130	110±0.5	8.5×17	Aluminum
BK2-2000	170	180	190	130	110±0.5	8.5×17	Copper
BK2-2000	205	205	240	170	115±0.5	8×11	Aluminum
BK2-2500	205	225	240	170	130±0.5	8×11	
BK2-3000	205	225	240	170	130±0.5	8×11	Copper
BK2-3000	205	240	240	170	140±0.5	8×11	Aluminum
BK2-4000	205	250	240	170	150±0.5	8×11	Copper
BK2-4000	235	270	265	190	145±0.5	8×11	Aluminum
BK2-5000	235	270	265	190	145±0.5	8×11	Copper
BK2-5000	235	280	265	190	160±0.5	8×11	Aluminum

JBK Machine Tool Control Transformer

General

JBK series machine tool control transformer for AC 50~60 Hz, input voltage less than 660V circuit, is used as the control power supply in all kinds of machine tools, machinery and equipment, local lighting and light power.

With imported materials and advanced technology of manufacturing, this series of transformers can be a replacement of other controllers for working with reliable, low power consumption, small size, wiring safety, wide applicability and so on.

Type designation

JB K □ - □

- Rated capacity (VA)
- Design No.
- Control
- Transformer

Item / Dimension / Model	Mountiong dimension(mm)		Shape dimension(mm)			Installing hole dimension(mm)
	A	C	Bmax	Dmax	Emax	K*J
JBK3-40VA	55	50	78	73	90	4.8*9
JBK3-63VA	55	50	78	73	90	4.8*9
JBK3-100VA	64	70	84	90	95	4.8*9
JBK3-160VA	84	72	96	96	105	5.8*11
JBK3-250VA	84	85	96	107	105	5.8*11
JBK3-400VA	90	84	120	115	120	7*13
JBK3-630VA	120	90	150	115	145	7*13
JBK3-800VA	120	105	150	130	145	7*13
JBK3-1000VA	158	140	200	165	150	7x12 Horizontal type
JBK3-1600VA	185	157	225	185	170	7x12 Horizontal type
JBK3-2500VA	207	170	255	195	180	7x12 Horizontal type

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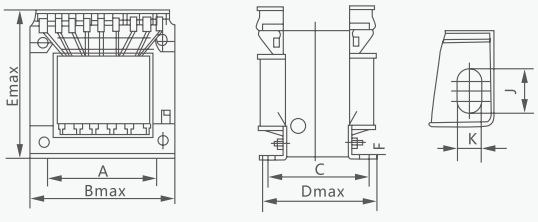
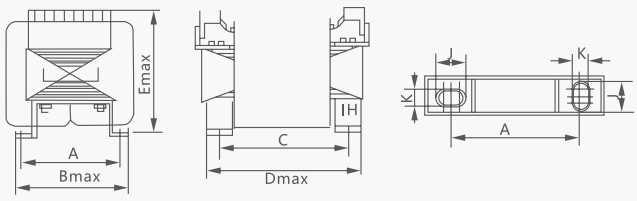
Overall and mounting dimensions(mm)



JBK3-40~630



JBK3-1000~2500

JBK5 Control Transformer

General

JBK5 series machine tool control transformer is the latest Transformers series that is introduced from a German company. Based on the domestic JBK3 series machine tool control transformes, JBK5 series absorb similar foreign porducts, advanced methods of terminal structure to connect terminal with the skeleton, improve protion rating and prevent accidental touching circuit. JBK5 series uses domestic IT cold terminal blocks to increase wiring connection intensity.

For transformer 800VA and below, 1000VA, 1600VA, the connections of vertical structure between the silicon steel and silicon steel, silicon steel and plates adopt the bottom gas-shielded arc welding to form a whole. It is clear and simple, especially the bottom one-time molding. The installtion dimension is more accurate than the JBK3 series, and the use of high-quality anti-corrosion alloym greatly improves the reliability of grounding performance and product quality. The products comply with VDE0550, IEC204 1, IEC439, JB/T5555,GB5226 and other relrvant international, national standards, and won the European Communiyt"CE" certification. It can be used interchangeably with foreign products.

JBK5 series machine tool control trandformer for AC 50~60Hz, input voltage less than 500V, the output rated voltage not exceed 220V, is used in the industries of mechanical equipment, general electrical control prwer and work lights power use.

Type designation

JBK 5 □ - □

- Tropic procucts
- Rated capacity (VA)
- Design No.
- Control transformer

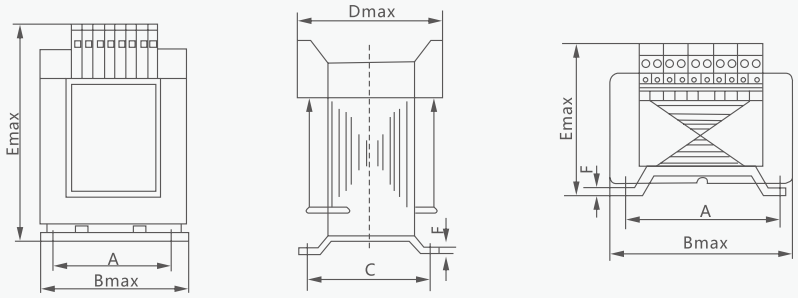
F

Technical data

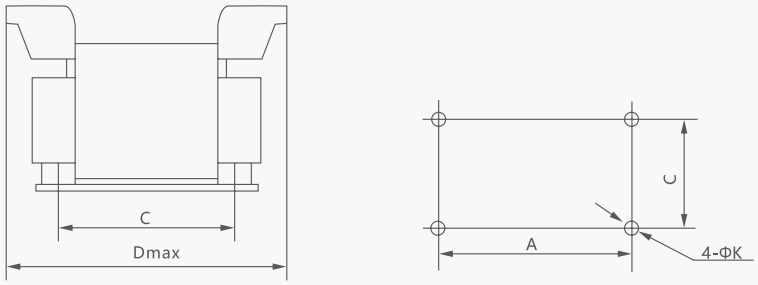
Model	Capacity (VA)	Power (%)	Output voltage under loading		Output voltage under loading		Note
			signal winding	control winding	signal winding	control winding	
JBK5-40	40	80	6≥U_m > 5 m 12≥U_m > 10	95%~105% UH	1.1Um	AC380 ±5% AC220 ±5%	AC220 (127) 110 48 36 24 12 6
JBK5-60	63	80					
JBK5-100	100	80					
JBK5-160	160	85					
JBK5-250	250	85					
JBK5-400	400	85					
JBK5-630	630	85					
JBK5-800	800	90					
JBK5-1000	1000	90					
JBK5-1600	1600	90	6≥U_m > 5 m				
JBK5-2500	2500	90	12≥U_m > 10				

JBK5 Control Transformer

Overall and mounting dimensions(mm)



JBK5-40~800



JBK5-1000~2500

F

Model	Mountiong dimension(mm)		Shape dimension(mm)				Installing hole
	A	C	Bmax	Dmax	Emax	Fmax	K
JBK5-40VA	60	45	78	74	95	1.2	4.6
JBK5-63VA	65	62	84	90	100	1.2	4.6
JBK5-100VA	82	75	96	91	110	1.5	5.5
JBK5-160VA	82	85	96	92	110	1.5	5.8
JBK5-250VA	95	77	120	93	130	1.5	5.8
JBK5-400VA	95	85	120	94	130	2	5.8
JBK5-630VA	95	96	120	95	130	2	7
JBK5-800VA	125	91	150	96	148	2	7
JBK5-1000VA	125	103	150	97	148	3	7
JBK5-1600VA	158	140	200	98	135	3	7
JBK5-2500VA	207	170	255	100	160	4	7

SG Three-phase Dry Type Transformer

General

SG series three-phase dry-type transformers are widely used in various occasions of three-phase power supply with AC 50~60Hz, input and output voltage not exceeding 500V. It is suitable for various input and output voltage levers, joining groups, adjusting the number of turns and positions (generally ±5%), winding capacity distribution, single-phase with secondary windings, rectifier circuit, with shell or not, etc. According to the requirements of users, the products can be meticulously designed and processed.

Type designation

S G □ - □

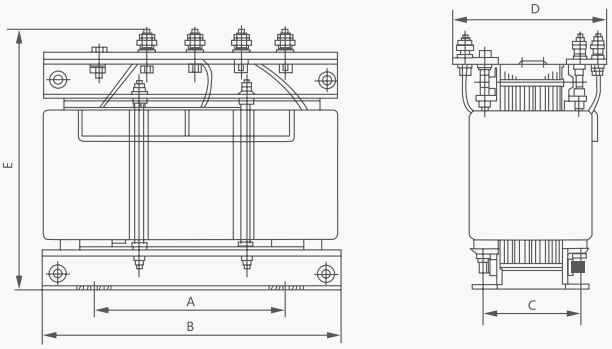
- Voltage grade kV
- Rated capacity
- Dry type transformer
- Three phase

Technical data

Model (KVA)	Voltage		Coupling group tab	Shape dimension					K×J	The box dimension(Copper)			The box dimension(Aluminum)		
	Input	Output		Bmax	Dmax ±5	Emax	A	C ±5		Bmax	Dmax	Emax	Bmax	Dmax	Emax
SG-300VA	660 400 380 200	380 220 110 36	Y/yno(Y/Yo) Y/d(Y/ △) D/y(△ /y) D/d(△ / △)	180	95	185	100	75	6×14						
SG-500VA				180	95	185	100	75	6×14						
SG-1000VA				180	110	185	100	90	6×14						
SG-1600VA				230	125	205	130	100	9×16						
SG-2000VA				230	125	205	130	100	9×16						
SG-3000VA				240	145	215	130	120	9×16						
SG-4000VA				240	155	235	130	130	9×16						
SG-5000VA				320	160	255	180	115	10×20	400	330	480	400	330	480
SG-6000VA				300	165	280	180	130	10×20	400	330	480	400	330	480
SG-8000VA				300	175	280	180	140	10×20	450	360	480	450	360	480
SG-10kVA				360	180	305	215	140	10×20	450	360	480	450	360	480
SG-15kVA				360	200	335	215	155	10×20	450	360	480	490	400	540
SG-20kVA				420	210	350	250	170	10×20	490	400	540	490	400	540
SG-25kVA				420	220	350	250	180	10×20	490	400	540	490	400	540
SG-30kVA				420	230	380	250	190	10×20	490	400	540	580	410	630
SG-40kVA				480	240	410	280	205	12×20	730	490	780	480	240	410
SG-50kVA				680	350	550	420	220	Φ18	800	510	840	800	510	840
SG-60kVA				680	380	550	440	230	Φ18	800	510	840	800	510	840
SG-80kVA				750	400	620	480	250	Φ20	850	510	840	850	510	840
SG-100kVA				780	420	650	500	250	Φ22	900	550	890	900	550	890

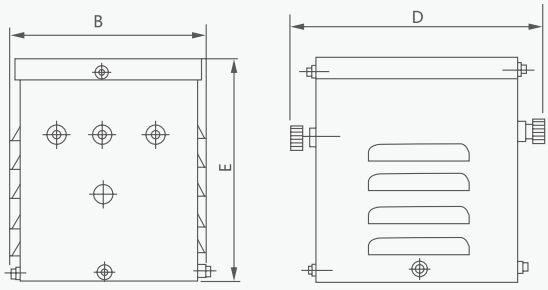
SG Three-phase Dry Type Transformer

The box of SG (optional)

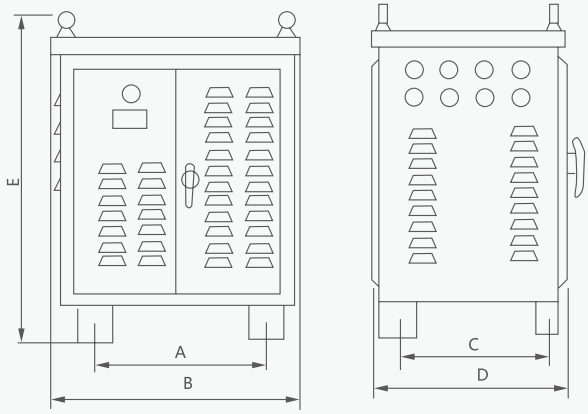


Note

1. The size is not indicated on the specification and shall be determined according to the user's requirements .The dimensions listed are for reference: the output current is larger than the product 300A.AS a special customized product quality, its product size would be changed.
2. Listed in the table rated input and output voltage can be any combination as needed.
3. The voltage listed in the table and size can be determined through consultantion according to user requirements.



0.3~3KVA



5~100KVA

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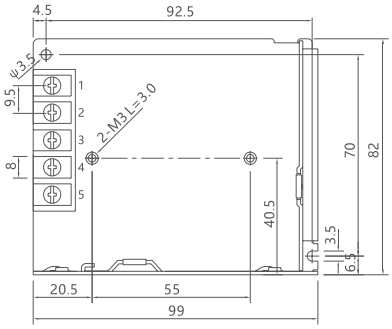
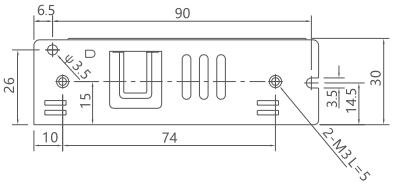
LRS-35 Switching Power Supply



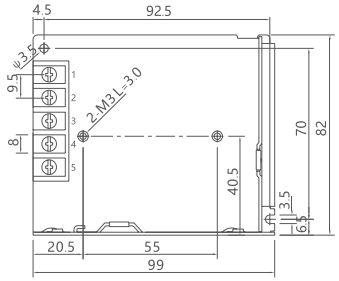


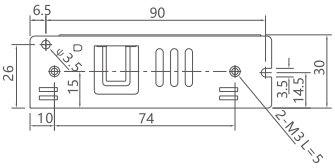
Technical data

Model		LRS-35-12	LRS-35-15	LRS-35-24	LRS-35-36	LRS-35-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	3A	2.4A	1.5A	1A	0.8A
	Current Range	0 ~ 3A	0 ~ 2.4A	0 ~ 1.5A	0 ~ 1A	0 ~ 0.8A
	Rated Power	36W	36W	36W	36W	38.4W
	Ripple & Noise (Max.)Note.2	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	1000ms, 30ms/230VAC 2000ms,30ms/115VAC at full load				
	Hold Up Time (Typ.)	30ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 373VDC				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	86%	86%	88%	88%	89%
	Ac Current (Typ.)	0.7A/115VAC 0.42A/230VAC				
	Inrush Current (Typ.)	COLD START 45A/230VAC				
	Leakage Current	<0.75mA / 240VAC				
Protection	Over Load	110 ~ 150% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1, EN60335-1, EN61558-1 2 16				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	763.6K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	99*82*30mm (L*W*H)				
	Weight	0.23Kg				

Power Supply

LRS-50 Switching Power Supply



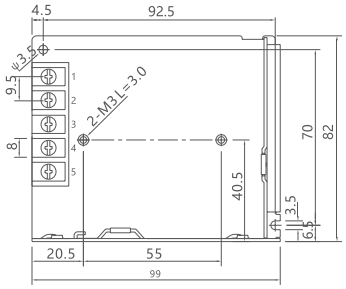


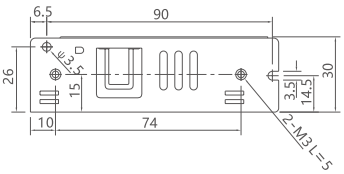
Technical data

Model		LRS-50-12	LRS-50-15	LRS-50-24	LRS-50-36	LRS-50-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	4.2A	3.4A	2.2A	1.45A	1.1A
	Current Range	0 ~ 4.2A	0 ~ 3.4A	0 ~ 2.2A	0 ~ 1.45A	0 ~ 1.1A
	Rated Power	50.4W	51W	52.8W	52.2W	52.8W
	Ripple & Noise (Max.)Note.2	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	1000ms, 30ms/230VAC 2000ms,30ms/115VAC at full load				
	Hold Up Time (Typ.)	30ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 373VDC				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	86%	88%	88%	89%	90%
	Ac Current (Typ.)	0.95A/115VAC 0.56A/230VAC				
	Inrush Current (Typ.)	COLD START 45A/230VAC				
	Leakage Current	<0.75mA / 240VAC				
Protection	Over Load	110 ~ 150% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1, EN60335-1, EN61558-1 2 16				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	645K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	99*82*30mm (L*W*H)				
	Weight	0.23Kg; 60pcs/14.8Kg/0.88CUFT				

F

LRS-60 Switching Power Supply



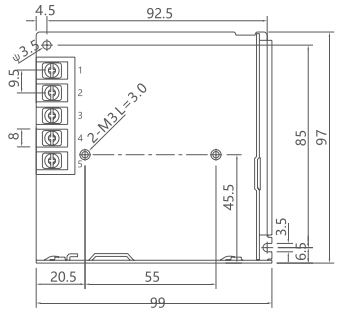


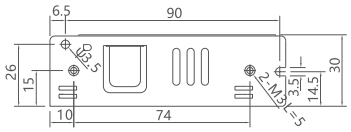
Technical data

Model		LRS-60-12	LRS-60-15	LRS-60-24	LRS-60-36	LRS-60-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	5A	4A	2.5A	1.7A	1.3A
	Current Range	0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.7A	0 ~ 1.3A
	Rated Power	60W	60W	60W	61.2W	62.4W
	Ripple & Noise (Max.)Note.2	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	1000ms, 30ms/230VAC 2000ms,30ms/115VAC at full load				
	Hold Up Time (Typ.)	30ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 373VDC				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	86%	88%	88%	89%	90%
	Ac Current (Typ.)	0.95A/115VAC 0.56A/230VAC				
	Inrush Current (Typ.)	COLD START 45A/230VAC				
	Leakage Current	<0.75mA / 240VAC				
Protection	Over Load	110 ~ 150% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1, EN60335-1, EN61558-1 2 16				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	645K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	99*82*30mm (L*W*H)				
	Weight	0.23Kg; 100pcs/23Kg/0.88CUFT				

Power Supply

LRS-75 Switching Power Supply





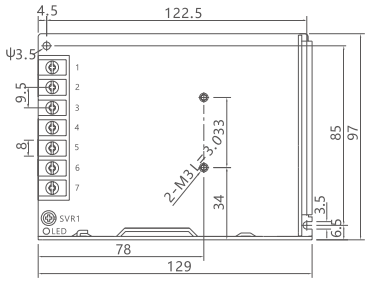
Technical data

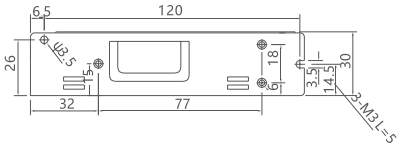
Model		LRS-75-12	LRS-75-15	LRS-75-24	LRS-75-36	LRS-75-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	6A	5A	3.2A	2.1A	1.6A
	Current Range	0 ~ 6A	0 ~ 5A	0 ~ 3.2A	0 ~ 2.1A	0 ~ 1.6A
	Rated Power	72W	75W	76.8W	75.6W	76.8W
	Ripple & Noise (Max.)Note.2	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load				
	Hold Up Time (Typ.)	60ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 373VDC				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	89%	89%	90%	91.5%	91.5%
	Ac Current (Typ.)	1.4A/115VAC 0.85A/230VAC				
	Inrush Current (Typ.)	COLD START 50A/230VAC				
	Leakage Current	<0.75mA / 240VAC				
Protection	Over Load	110 ~ 150% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1, EN60335-1, EN61558-1 2 16				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C/ 70% RH				
Others	Mtbf	681.2K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	99*97*30mm (L*W*H)				
	Weight	0.3Kg				

F

Power Supply

LRS-100 Switching Power Supply





Technical data

Model		LRS-100-12	LRS-100-15	LRS-100-24	LRS-100-36	LRS-100-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	8.5A	7A	4.5A	2.8A	2.3A
	Current Range	0 ~ 8.5A	0 ~ 7A	0 ~ 4.5A	0 ~ 2.8A	0 ~ 2.3A
	Rated Power	102W	105W	108W	100.8W	110.4W
	Ripple & Noise (Max.)Note.2	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load				
	Hold Up Time (Typ.)	55ms/230VAC 10ms/115VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	88%	88.5%	90%	90.5%	91%
	Ac Current (Typ.)	1.9A/115VAC 1.2A/230VAC				
	Inrush Current (Typ.)	COLD START 50A/230VAC				
	Leakage Current	<0.75mA / 240VAC				
Protection	Over Load	110 ~ 150% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1, EN60335-1, EN61558-1				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	720.6K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	129*97*30mm (L*W*H)				
	Weight	0.34Kg				

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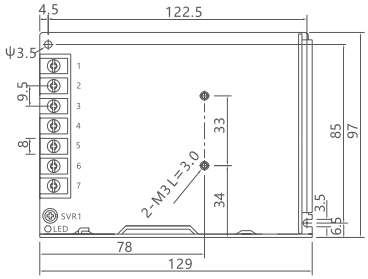
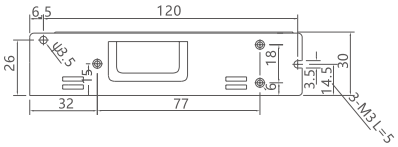
Power Supply

LRS-120 Switching Power Supply



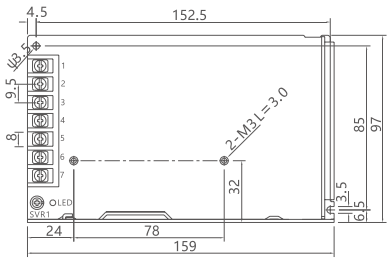


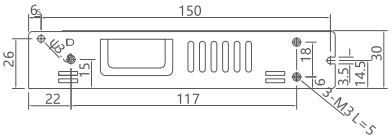
Technical data

Model		LRS-120-12	LRS-120-15	LRS-120-24	LRS-120-36	LRS-120-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	10A	8A	5A	3.3A	2.5A
	Current Range	0 ~ 10A	0 ~ 8A	0 ~ 5A	0 ~ 3.3A	0 ~ 2.5A
	Rated Power	120W	120W	120W	118.8W	120W
	Ripple & Noise (Max.)Note.2	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load				
	Hold Up Time (Typ.)	55ms/230VAC 10ms/115VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	88%	88.5%	90%	90.5%	91%
	Ac Current (Typ.)	2.3A/115VAC 1.5A/230VAC				
	Inrush Current (Typ.)	COLD START 50A/230VAC				
	Leakage Current	<0.75mA / 240VAC				
Protection	Over Load	110 ~ 150% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1, EN60335-1, EN61558-1				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	720.6K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	129*97*30mm (L*W*H)				
	Weight	0.34Kg				

F

LRS-150 Switching Power Supply





Technical data

Model		LRS-150 -12	LRS-150-15	LRS-150-24	LRS-150-36	LRS-150-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	12.5A	10A	6.5A	4.3A	3.3A
	Current Range	0 ~ 12.5A	0 ~ 10A	0 ~ 6.5A	0 ~ 4.3A	0 ~ 3.3A
	Rated Power	150W	150W	156W	154.8W	158.4W
	Ripple & Noise (Max.)Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load				
	Hold Up Time (Typ.)	16ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	85 ~ 264VAC 120 ~ 370VDC				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	87.5%	89%	89%	89%	90%
	Ac Current (Typ.)	2.8A/115VAC 1.6A/230VAC				
	Inrush Current (Typ.)	COLD STAR 60A/230VAC				
	Leakage Current	<0.75mA / 240VAC				
Protection	Over Load	110 ~ 140% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1, EN60335-1, EN61558-1				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	648.6K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	159*97*30mm (L*W*H)				
	Weight	0.48Kg				

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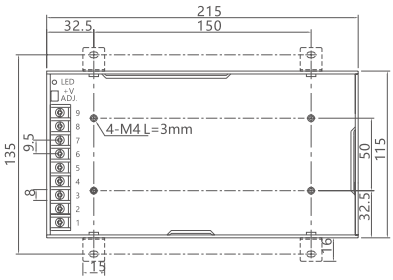
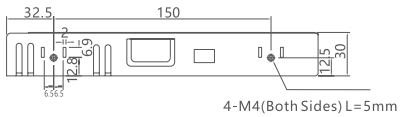
Power Supply

LRS-200 Switching Power Supply





Technical data

Model		LRS-200-12	LRS-200-15	LRS-200-24	LRS-200-36	LRS-200-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	17A	14A	8.8A	5.9A	4.4A
	Current Range	0 ~ 17A	0 ~ 14A	0 ~ 8.8A	0 ~ 5.9A	0 ~ 4.4A
	Rated Power	204W	210W	211.2W	212.4W	211.2W
	Ripple & Noise (Max.)Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load				
	Hold Up Time (Typ.)	16ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	87.5%	88%	89.5%	89.5%	90%
	Ac Current (Typ.)	4A/115VAC 2.2A/230VAC				
	Inrush Current (Typ.)	COLD STAR 60A/115VAC 60A/230VAC				
	Leakage Current	<2mA / 240VAC				
Protection	Over Load	110 ~ 140% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	347.5K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	215*115*30mm (L*W*H)				
	Weight	0.66Kg				

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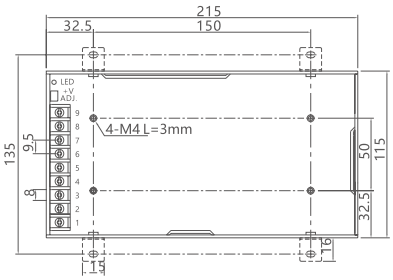
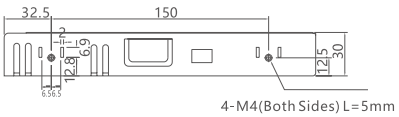
LRS-250 Switching Power Supply





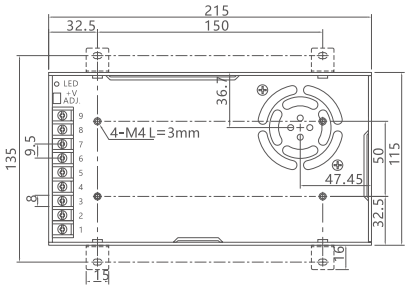
Technical data

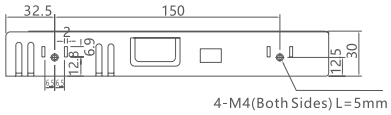
Model		LRS-250-12	LRS-250-15	LRS-250-24	LRS-250-36	LRS-250-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	20A	16A	10A	6.7A	5A
	Current Range	0 ~ 20A	0 ~ 16A	0 ~ 10A	0 ~ 6.7A	0 ~ 5A
	Rated Power	240W	240W	240W	241.2W	240W
	Ripple & Noise (Max.)Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load				
	Hold Up Time (Typ.)	16ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	87.5%	88%	89.5%	89.5%	90%
	Ac Current (Typ.)	5.0A/115VAC 2.5A/230VAC				
	Inrush Current (Typ.)	COLD STAR 60A/115VAC 60A/230VAC				
	Leakage Current	<2mA / 240VAC				
Protection	Over Load	110 ~ 140% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Others	Mtbf	347.5K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	215*115*30mm (L*W*H)				
	Weight	0.66Kg				

F

Power Supply

LRS-350 Switching Power Supply





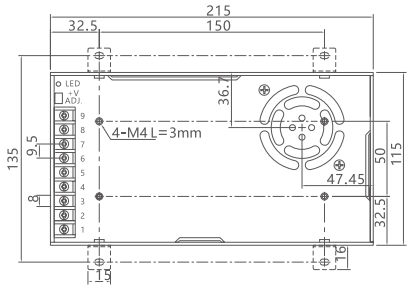
Technical data

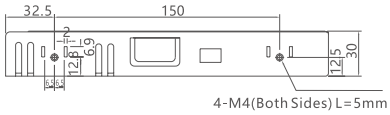
Model		LRS-350-12	LRS-350-15	LRS-350-24	LRS-350-36	LRS-350-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	29A	23.2A	14.6A	9.7A	7.3A
	Current Range	0 ~ 29A	0 ~ 23.2A	0 ~ 14.6A	0 ~ 9.7A	0 ~ 7.3A
	Rated Power	348W	348W	350.4W	349.2W	350.4W
	Ripple & Noise (Max.)Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load				
	Hold Up Time (Typ.)	16ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	85%	86%	88%	88.5%	89%
	Ac Current (Typ.)	6.8A/115VAC 3.4A/230VAC				
	Inrush Current (Typ.)	60A/115VAC 60A/230VAC				
	Leakage Current	<2mA / 240VAC				
Protection	Over Load	110 ~ 140% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Function	Fan On/Off Control	RTH3 ≧ 50°C FAN ON, ≧ 40°C FAN OFF				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C/ 70% RH				
Others	Mtbf	327.9K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	215*115*30mm (L*W*H)				
	Weight	0.76Kg				

F

Power Supply

LRS-400 Switching Power Supply





Technical data

Model		LRS-400-12	LRS-400-15	LRS-400-24	LRS-400-36	LRS-400-48
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	33A	26.6A	16.5A	11A	8.3A
	Current Range	0 ~ 33A	0 ~ 26.6A	0 ~ 16.5A	0 ~ 11A	0 ~ 8.3A
	Rated Power	396W	399W	396W	396W	398.4W
	Ripple & Noise (Max.)Note.2	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	Voltage Adj. Range	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V
	Voltage Tolerance Note.3	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation Note.5	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup, Rise Time	1300ms, 50ms/230VAC 1300ms,50ms/115VAC at full load				
	Hold Up Time (Typ.)	16ms/230VAC 12ms/115VAC at full load				
Input	Voltage Range	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (switch on 230VAC)				
	Frequency Range	47 ~ 63Hz				
	Efficiency (Typ.)	85%	86%	88%	88.5%	89%
	Ac Current (Typ.)	6.8A/115VAC 3.4A/230VAC				
	Inrush Current (Typ.)	60A/115VAC 60A/230VAC				
	Leakage Current	<2mA / 240VAC				
Protection	Over Load	110 ~ 140% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
Function	Fan On/Off Control	RTH3 ≦ 50°C FAN ON, ≦ 40°C FAN OFF				
Environment	Working Temp.	-20 ~ +70°C (Refer to "Derating Curve")				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% RH				
	Temp. Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes				
Safety & Emc	Standards	EN60950-1 approved				
	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C/ 70% RH				
Others	Mtbf	327.9K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	215*115*30mm (L*W*H)				
	Weight	0.76Kg				

F

MSF-10W, MSF-20W Switching Power Supply

MSF-10W

MSF-10W

Single output: power 10W
Input voltage: 85~264VAC 120~370VDC

Technical data

Specification \ Model	MSF-10-5	MSF-10-12	MSF-10-15	MSF-10-24
DC output voltage, current	5V 0~2A	12V 0~1A	15V 0~0.8A	24V 0~0.5A
Wave and noise	50mVp-p	50mVp-p	50mVp-p	50mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%
Efficiency	68%	71%	72%	75%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~135% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	78×48×21mm			

MSF-20W

MSF-20W

Single output: power 20W
Input voltage: 85~264VAC 120~370VDC

Technical data

Specification \ Model	MSF-20-5	MSF-20-12	MSF-20-15	MSF-20-24
DC output voltage, current	5V 0~4A	12V 0~2A	15V 0~1.6A	24V 0~1A
Wave and noise	50mVp-p	50mVp-p	50mVp-p	50mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%
Efficiency	68%	71%	72%	75%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~135% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	97×58×25mm			

MS-15W, S-15W Switching Power Supply

MS-15W

MS-15W

Single output: power 15W
Input voltage: 85~264VAC 120~370VDC

Technical data

Specification \ Model	MS-15-5	MS-15-12	MS-15-15	MS-15-24
DC output voltage, current	5V 0~3A	12V 0~1.3A	15V 0~1A	24V 0~0.7A
Wave and noise	60mVp-p	80mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	68%	71%	72%	75%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~135% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	84×58×38mm			

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S-15W

S-15W

Single output: power 15W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-15-5	S-15-12	S-15-15	S-15-24
DC output voltage, current	5V 0~3A	12V 0~1.3A	15V 0~1A	24V 0~0.7A
Wave and noise	60mVp-p	80mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	68%	71%	72%	75%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~135% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	98×97×35mm			

MS-25W, S-25W Switching Power Supply

MS-25W

Single output: power 25W
Input voltage: 85~264VAC 120~370VDC

MS-25W

Technical data

Specification \ Model	MS-25-5	MS-25-12	MS-25-15	MS-25-24
DC output voltage, current	5V 0~5A	12V 0~1.3A	15V 0~1A	24V 0~0.7A
Wave and noise	60mVp-p	80mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	70%	75%	76%	78%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~135% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	84×58×38mm			

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S-25W

Single output: power 25W
Input voltage: 90~132VAC/180~264VAC by switch

S-25W

Technical data

Specification \ Model	S-25-5	S-25-12	S-25-15	S-25-24
DC output voltage, current	5V 0~3A	12V 0~1.3A	15V 0~1A	24V 0~0.7A
Wave and noise	60mVp-p	80mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	68%	71%	72%	75%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~150% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	98×97×35mm			

MS-35W, S-35W Switching Power Supply

MS-35W

MS-35W

Single output: power 35W
Input voltage: 180~264VAC 120~370VDC

Technical data

Specification \ Model	MS-35-5	MS-35-12	MS-35-15	MS-35-24
DC output voltage, current	5V 0~6A	12V 0~3A	15V 0~2.4A	24V 0~1.5A
Wave and noise	60mVp-p	80mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±1%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%
Efficiency	77%	81%	83%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~150% cut off the output, automtic recovery			
Over voltage protection	115%~135% shut down O/P voltage, re-Power on to recover			
Setup, rise, hold up time	300ms, 50ms, 80ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	84×58×38mm			

S-35W

S-15W

Single output: power 15W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-15-5	S-15-12	S-15-15	S-15-24
DC output voltage, current	5V 0~3A	12V 0~1.3A	15V 0~1A	24V 0~0.7A
Wave and noise	60mVp-p	80mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	68%	71%	72%	75%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~135% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	98×97×35mm			

MS-50W, S-50W Switching Power Supply

MS-50W

MS-50W

Single output: power 50W
Input voltage: 85~264VAC 120~370VD

Technical data

Specification \ Model	MS-50-5	MS-50-12	MS-50-15	MS-50-24
DC output voltage, current	5V 0~10A	12V 0~4.2A	15V 0~3.4A	24V 0~2.1A
Wave and noise	75mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%
Efficiency	80%	82%	82%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47~63Hz			
Impact current	Cold start current 18A/115VAC 36A/230VAC			
Overload protection	105%~150% cut off the output, automtic recovery			
Over voltage protection	115%~135% shut down O/P voltage, re-Power on to recover			
Setup, rise, hold up time	300ms, 50ms, 60ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	111×78×36mm			

F

S-50W

S-50W

Single output: power 50W
Input voltage: 90~132VAC/180~264VAC by switc

Technical data

Specification \ Model	S-50-5	S-50-12	S-50-15	S-50-24
DC output voltage, current	5V 0~10A	12V 0~4.2A	15V 0~3.4A	24V 0~2.1A
Wave and noise	75mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%
Efficiency	71%	78%	78%	82%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz			
Impact current	Cold start current 30A/230VAC			
Overload protection	105%~150% cut off the output, automtic recovery			
Over voltage protection				
Setup, rise, hold up time	200ms, 100ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	159×98×38mm			

S-100W, S-120W Switching Power Supply

S-100W

S-100W

Single output: power 100W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-100-5	S-100-12	S-100-18	S-100-24	S-100-36	S-100-48
DC output voltage, current	5V 0~20A	12V 0~8.5A	12V 0~8.5A	12V 0~8.5A	18V 0~5.5A	24V 0~1.5A
Wave and noise	75mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.5%
Load stability	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.5%
Efficiency	78%	81%	81%	81%	84%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 30A/115VAC 60A/230VAC					
Overload protection	105%~150% cut off the output, automtic recovery					
Over voltage protection						
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×98×38mm					

S-120W

S-120W

Single output: power 120W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-120-12	S-120-15	S-120-18	S-120-24	S-120-36	S-120-48
DC output voltage, current	12V 0~10A	15V 0~8A	18V 0~6.7A	24V 0~5A	36V 0~3.3A	48V 0~2.1A
Wave and noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
Load stability	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
Efficiency	81%	82%	84%	84%	84%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 30A/115VAC 60A/230VAC					
Overload protection	105%~150% cut off the output, automtic recovery					
Over voltage protection	115%~135% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×98×38mm					

S-145W, MS-150W Switching Power Supply

S-145W

S-145W

Single output: power 145W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-145-5	S-145-12	S-145-18	S-145-24	S-145-36	S-145-48
DC output voltage, current	5V 0~25A	12V 0~12A	18V 0~8A	24V 0~6A	36V 0~4A	48V 0~3A
Wave and noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
Load stability	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
Efficiency	70%	80.5%	80.5%	83.5%	83.5%	83.5%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 35A/115VAC 60A/230VAC					
Overload protection	105%~150% cut off the output, automtic recovery					
Over voltage protection	115%~150% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	100ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×98×38mm					

MS-150W

MS-1150W

Single output: power 150W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	MS-150-12	MS-150-15	MS-150-24	MS-150-36	MS-150-48
DC output voltage, current	12V 0~12.5A	15V 0~10A	24V 0~6.5A	36V 0~4.2A	48V 0~3.1A
Wave and noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	83%	84%	86%	86%	86%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz				
Impact current	Cold start current 15A/115VAC 30A/230VAC				
Overload protection	105%~150% cut off the output, automtic recovery				
Over voltage protection					
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load				
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute				
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ				
Working temperature	-10°C~+50°C				
Dimension	159×98×38mm				

S-100W, S-120W Switching Power Supply

S-100W

S-100W

Single output: power 100W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-100-5	S-100-12	S-100-18	S-100-24	S-100-36	S-100-48
DC output voltage, current	5V 0~20A	12V 0~8.5A	12V 0~8.5A	12V 0~8.5A	18V 0~5.5A	24V 0~1.5A
Wave and noise	75mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.5%
Load stability	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.5%
Efficiency	78%	81%	81%	81%	84%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 30A/115VAC 60A/230VAC					
Overload protection	105%~150% cut off the output, automtic recovery					
Over voltage protection						
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×98×38mm					

S-120W

S-120W

Single output: power 120W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-120-12	S-120-15	S-120-18	S-120-24	S-120-36	S-120-48
DC output voltage, current	12V 0~10A	15V 0~8A	18V 0~6.7A	24V 0~5A	36V 0~3.3A	48V 0~2.1A
Wave and noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
Load stability	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	±0.2%
Efficiency	81%	82%	84%	84%	84%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 30A/115VAC 60A/230VAC					
Overload protection	105%~150% cut off the output, automtic recovery					
Over voltage protection	115%~135% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×98×38mm					

F

S-145W, MS-150W Switching Power Supply

S-145W

S-145W

Single output: power 145W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-145-5	S-145-12	S-145-18	S-145-24	S-145-36	S-145-48
DC output voltage, current	5V 0~25A	12V 0~12A	18V 0~8A	24V 0~6A	36V 0~4A	48V 0~3A
Wave and noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
Load stability	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
Efficiency	70%	80.5%	80.5%	83.5%	83.5%	83.5%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 35A/115VAC 60A/230VAC					
Overload protection	105%~150% cut off the output, automtic recovery					
Over voltage protection	115%~150% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	100ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×98×38mm					

MS-150W

MS-150W

Single output: power 150W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	MS-150-12	MS-150-15	MS-150-24	MS-150-36	MS-150-48
DC output voltage, current	12V 0~12.5A	15V 0~10A	24V 0~6.5A	36V 0~4.2A	48V 0~3.1A
Wave and noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	83%	84%	86%	86%	86%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz				
Impact current	Cold start current 15A/115VAC 30A/230VAC				
Overload protection	105%~150% cut off the output, automtic recovery				
Over voltage protection					
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load				
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute				
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ				
Working temperature	-10°C~+50°C				
Dimension	159×98×38mm				

S-150W, S-200W Switching Power Supply

S-150W

S-150W

Single output: power 150W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-150-5	S-150-12	S-150-15	S-150-24	S-150-36	S-150-48
DC output voltage, current	5V 0~30A	12V 0~12.5A	15V 0~10A	24V 0~6.5A	36V 0~4.1A	48V 0~3.1A
Wave and noise	150mVp-p	180mVp-p	180mVp-p	240mVp-p	240mVp-p	240mVp-p
Inlet wire stability	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
Load stability	±0.8%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
Efficiency	78%	82%	84%	85%	86%	87%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 35A/115VAC 60A/230VAC					
Overload protection	105%~150% cut off the output, automtic recovery					
Over voltage protection	115%~135% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	100ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×110×50mm					

S-200W

S-200W

Single output: power 200W
Input voltage: 180~264VAC by switch

Technical data

Specification \ Model	S-200-5	S-200-15	S-200-18	S-200-24	S-200-36	S-200-48
DC output voltage, current	5V 0~40A	12V 0~16A	15V 0~13A	24V 0~8.5A	36V 0~5.5A	48V 0~4.2A
Wave and noise	150mVp-p	180mVp-p	180mVp-p	240mVp-p	240mVp-p	240mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	79%	82%	83%	83%	86%	86%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC					
Impact current	Cold start current 15A/115VAC 30A/230VAC					
Overload protection	105%~201% cut off the output, automtic recovery					
Over voltage protection						
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	199×110×50mm					

S-201W, S-250W Switching Power Supply

S-201W

S-201W

Single output: power 200W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-201-5	S-201-12	S-201-18	S-201-24	S-201-36	S-201-48
DC output voltage, current	5V 0~40A	12V 0~16A	15V 0~13A	24V 0~8.3A	36V 0~5.5A	48V 0~4.2A
Wave and noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	240mVp-p	240mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	74%	80%	80%	83%	84%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 25A/115VAC 50A/230VAC					
Overload protection	105%~135% cut off the output, automtic recovery					
Over voltage protection	115%~145% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	200ms, 100ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	215×115×50mm					

S-250W

S-250W

Single output: power 250W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-250-5	S-250-12	S-250-15	S-250-24	S-250-36	S-250-48
DC output voltage, current	5V 0~45A	12V 0~20A	15V 0~16A	24V 0~10A	36V 0~6.7A	48V 0~5A
Wave and noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
Inlet wire stability	±2%	±1%	±1%	±1%	±1%	±1%
Load stability	±2%	±1%	±1%	±1%	±1%	±1%
Efficiency	74%	79%	79%	81.5%	84%	84%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 25A/115VAC 50A/230VAC					
Overload protection	105%~135% cut off the output, automtic recovery					
Over voltage protection	115%~150% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	200ms, 50ms, 16ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	215×115×50mm					

F

S-350W Switching Power Supply

S-350W

S-350W

Single output: power 350W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-350-5	S-350-12	S-350-15	S-350-18	S-350-24
DC output voltage, current	5V 0~50A	12V 0~29A	15V 0~23A	18V 0~19A	24V 0~14A
Wave and noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	73%	83%	83%	84%	85%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz				
Impact current	Cold start current 25A/115VAC 50A/230VAC				
Overload protection	105%~135% cut off the output, automtic recovery				
Over voltage protection	115%~150% shut down O/P voltage ,re-power on to recover				
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load				
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute				
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ				
Working temperature	-10°C~+50°C				
Dimension	215×115×50mm				

S-350W

S-350W

Single output: power 350W
Input voltage: 90~132VAC/180~264VAC by swit

Technical data

Specification \ Model	S-350-27	S-200-36	S-200-48	S-200-60	S-200-70	S-200-110
DC output voltage, current	27V 0~13A	36V 0~9.7A	48V 0~7.3A	60V 0~6A	70V 0~0.5A	110V 0~3A
Wave and noise	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	240mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	85%	85%	86%	86%	86%	86%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz					
Impact current	Cold start current 25A/115VAC 50A/230VAC					
Overload protection	105%~135% cut off the output, automtic recovery					
Over voltage protection	115%~150% shut down O/P voltage ,re-power on to recover					
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load					
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute					
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ					
Working temperature	-10°C~+50°C					
Dimension	215×115×50mm					

S-400W, S-500W Switching Power Supply

S-201W

S-400W

Single output: power 400W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-400-5	S-400-12	S-400-24	S-400-48
DC output voltage, current	5V 0~60A	12V 0~33A	24V 0~16.5A	48V 0~8.3A
Wave and noise	100mVp-p	150mVp-p	150mVp-p	200mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±1%	±0.5%	±0.5%	±0.5%
Efficiency	73%	74%	81%	83%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz			
Impact current	Cold start current 25A/115VAC 50A/230VAC			
Overload protection	105%~135% cut off the output, automtic recovery			
Over voltage protection	115%-150% shut down O/P voltage, re-power on to recover			
Setup, rise, hold up time	200ms, 50ms, 20ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	215×115×50mm			

S-250W

S-500W

Single output: power 500W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-500-12	S-500-24	S-500-36	S-500-48
DC output voltage, current	12V 0~40A	24V 0~20A	36V 0~14A	48V 0~10A
Wave and noise	100mVp-p	150mVp-p	150mVp-p	150mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	83%	85%	86%	87%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz			
Impact current	Cold start current 25A/115VAC 50A/230VAC			
Overload protection	105%~300% cut off the output, automtic recovery			
Over voltage protection	115%-140% shut down O/P voltage, re-power on to recover			
Setup, rise, hold up time	800ms, 20ms, 36ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	238×124×65mm			

S-600W, DR-30W Switching Power Supply

S-600W

S-600W

Single output: power 600W
Input voltage: 90~132VAC/180~264VAC by switch

Technical data

Specification \ Model	S-600-12	S-600-24	S-600-36	S-600-48
DC output voltage, current	12V 0~50A	24V 0~25A	36V 0~16.7A	48V 0~12.5A
Wave and noise	100mVp-p	150mVp-p	150mVp-p	150mVp-p
Inlet wire stability	±0.5%	±0.5%	±0.5%	±0.5%
Load stability	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	83%	85%	86%	87%
Adjustable range for DC voltage	±10%	±10%	±10%	±10%
Input voltage range	90~132VAC/180~264VAC by switch 254~370VDC 47~63Hz			
Impact current	Cold start current 25A/115VAC 50A/230VAC			
Overload protection	105%~300% cut off the output, automtic recovery			
Over voltage protection	115%-140% shut down O/P voltage, re-power on to recover			
Setup, rise, hold up time	800ms, 20ms, 36ms/230VAC at full load			
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute			
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ			
Working temperature	-10°C~+50°C			
Dimension	238×124×65mm			

DR-30W

DR-30W

Single output: power 30W
Input voltage: 85~264VAC 120~370VDC

Technical data

Specification \ Model	DR-30-12	DR-30-24
DC output voltage, current	12V 0~2A	24V 0~1.5A
Wave and noise	120mVp-p	150mVp-p
Inlet wire stability	±0.5%	±0.5%
Load stability	±0.5%	±0.5%
Efficiency	81%	83%
Adjustable range for DC voltage	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47-63Hz	
Impact current	Cold start current 15A/115VAC 30A/230VAC	
Overload protection	105%~160% cut off the output, automtic recovery	
Over voltage protection	115%-135% shut down O/P voltage, re-power on to recover	
Setup, rise, hold up time	800ms, 60ms, 50ms/230VAC at full load	
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute	
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ	
Working temperature	-10°C~+50°C	
Dimension	78×93×56mm	

DR-45W, DR-60W Switching Power Supply

DR-45W

DR-45W

Single output: power 45W
Input voltage: 85~264VAC 120~370VDC

Technical data

Specification \ Model	DR-45-12	DR-30-24
DC output voltage, current	12V 0~3.5A	24V 0~2A
Wave and noise	120mVp-p	150mVp-p
Inlet wire stability	±0.5%	±0.5%
Load stability	±0.5%	±0.5%
Efficiency	77%	80%
Adjustable range for DC voltage	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47-63Hz	
Impact current	Cold start current 28A/115VAC 56A/230VAC	
Overload protection	105%~150% cut off the output, automtic recovery	
Over voltage protection	115%-135% shut down O/P voltage, re-power on to recover	
Setup, rise, hold up time	800ms, 60ms, 50ms/230VAC at full load	
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute	
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ	
Working temperature	-10°C~+50°C	
Dimension	78×93×56mm	

F

DR-60W

DR-60W

Single output: power 60W
Input voltage: 85~264VAC 120~370VDC

Technical data

Specification \ Model	DR-60-12	DR-60-24
DC output voltage, current	12V 0~4.5A	24V 0~2.5A
Wave and noise	120mVp-p	150mVp-p
Inlet wire stability	±0.5%	±0.5%
Load stability	±0.5%	±0.5%
Efficiency	82%	84%
Adjustable range for DC voltage	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47-63Hz	
Impact current	Cold start current 18A/115VAC 36A/230VAC	
Overload protection	105%~160% cut off the output, automtic recovery	
Over voltage protection	115%-135% shut down O/P voltage, re-power on to recover	
Setup, rise, hold up time	800ms, 60ms, 50ms/230VAC at full load	
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute	
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ	
Working temperature	-10°C~+50°C	
Dimension	78×93×56mm	

DR-75W, DR-120W Switching Power Supply

DR-75W
(Single output DIN rail power supply)

DR-75W

Single output: power 75W
Input voltage: 85~264VAC 120~370VDC

Technical data

55.5×125.2×100mm

Specification \ Model	DR-75-12	DR-75-24
DC output voltage, current	12V 0~6.3A	24V 0~3.2A
Wave and noise	100mVp-p	150mVp-p
Inlet wire stability	±0.5%	±0.5%
Load stability	±0.5%	±0.5%
Efficiency	76%	80%
Adjustable range for DC voltage	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47-63Hz	
Impact current	Cold start current 20A/115VAC 40A/230VAC	
Overload protection	105%~150% cut off the output, automtic recovery	
Over voltage protection	121%-142% shut down O/P voltage, re-power on to recover	
Setup, rise, hold up time	1000ms, 60ms, 60ms/230VAC at full load	
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute	
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ	
Working temperature	-10°C~+50°C	
Dimension	55.5×125.2×100mm	

DR-120W
(Single output DIN rail power supply)

DR-120W

Single output: power 120W
Input voltage: 85~264VAC 120~370VDC

Technical data

65.5×125.2×100mm

Specification \ Model	DR-30-12	DR-120-24
DC output voltage, current	12V 0~10A	24V 0~5A
Wave and noise	85mVp-p	85mVp-p
Inlet wire stability	±0.5%	±0.5%
Load stability	±1%	±0.5%
Efficiency	80%	84%
Adjustable range for DC voltage	±10%	±10%
Input voltage range	85~264VAC 120~370VDC 47-63Hz	
Impact current	Cold start current 20A/115VAC 40A/230VAC	
Overload protection	105%~150% cut off the output, automtic recovery	
Over voltage protection	120%-140% shut down O/P voltage, re-power on to recover	
Setup, rise, hold up time	500ms, 70ms, 30ms/230VAC at full load	
Withstand voltage	I/P-O/P: 1.5kV I/P-FG: 1.5kV O/P-FG: 0.5kV 1minute	
Isolation resistance	I/P-O/P I/P-FG O/P-F/G: 500VDC/100MΩ	
Working temperature	-10°C~+50°C	
Dimension	65.5×125.2×100mm	

YCPE Series Pure Sine Wave Inverter With E Display

OVERLOAD PROTECTION

OVER TEMPERATURE PROTECTION

SHORT CURRENT PROTECTION

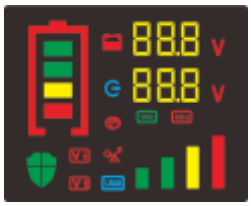
LOW/OVER VOLTAGE PROTECTION

Intelligent digital display
Input & output fully isolated.
Very stable AC output, low voltage drop
Customized input voltage: 36V/60V/72V/96V/110V

Model / Specification	YCPE300	YCPE500	YCPE1000	YCPE1500	YCPE2000	YCPE3000	YCPE4000	YCPE5000	YCPE6000	YCPE8000
Rated Power	300W	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W
Surge Power	600W	1000W	2000W	3000W	4000W	6000W	8000W	10000W	12000W	16000W
Input Voltage	12/24/48VDC							24/48VDC		
Output Voltage	110/220VAC±5%									
USB Port	5V 2A									
Frequency	50Hz ± 3 or 60Hz±3									
Output Waveform	Pure Sine Wave									
Soft Start	YES									
THD/AC Regulation	THD<3%(LinearLoad)									
Output Efficiency	94%MAX									
Cooling Way	Intelligent Cooling Fan									
Protection	Battery Low Voltage & Over Voltage, Over Load, Over Temperature,Short Circuit									
WorkingTemperature	-10°C-+50°C									
Dimension(L*W*H) (cm)	20*11.2*6	21.5*15*7.8	27.8*17*10.5	38.1*17*10.5	38.1*17*10.5	48*19.9*8.4	44*20*15	51*20*15	61*20*15	61*20*15
Meas./Ctn(L*W*H) (cm)	54.5*49*32.5 /18PCS	76*45*28 /10pcs	53.5*47*40.7 /6pcs	47.5*47*36.5 /4PCS	47.5*47*36.5 /4PCS	62.5*53*29.5 /4pcs	63.5*30.8*24 /1pcs	63.5*30.8*24 /1pcs	73.5*30.8*24 /1pcs	73.5*30.8*24/ 1pcs
N.W./Unit(kg)	0.82KG	1.7KG	2.74KG	4KG	4KG	6.1KG	9KG	10.12KG	11.62KG	13.14KG
G.W./Ctn	20KG	22.5KG	20.5KG	21.6KG	21.6KG	30.44KG	10.84KG	11.72KG	13.44KG	14.96KG
Packing	Carton						Honeycomb carton			
Warranty	2 Years									

F

E Model Display



Power On

Frequency

Battery Connected

Battery Level

Output Load Percent

Battery Voltage & AC Output Voltage

Inverter Overload Protection

Inverter Over Voltage Protection

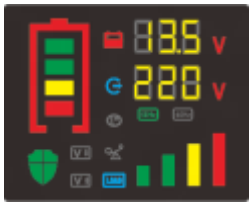
Inverter Low Voltage Protection

Inverter Over Temperature Protection

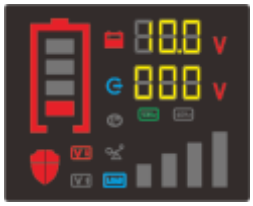
Inverter Under Protection

Inverter Normal Working

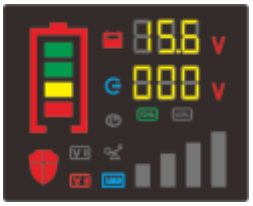
Working Mode



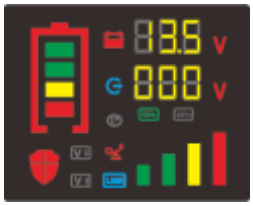
Normal Working



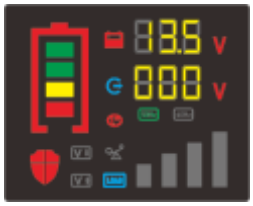
Low-volt Protection



High-volt Protection



Overload Protection



High-Temp Protection

YCP Series Pure Sine Wave Inverter

OVERLOAD PROTECTION

OVER TEMPERATURE PROTECTION

SHORT CURRENT PROTECTION

LOW/OVER VOLTAGE PROTECTION

Model Specification	YCP300	YCP500	YCP1000	YCP1500	YCP2000	YCP3000	YCP4000	YCP5000	YCP6000	YCP8000
Rated Power	300W	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W
Surge Power	600W	1000W	2000W	3000W	4000W	6000W	8000W	10000W	12000W	16000W
Input Voltage	12/24/48VDC							24/48VDC		
Output Voltage	110/220VAC±5%									
USB Port	5V 1A									
Frequency	50Hz ± 3 or 60Hz±3									
Output Waveform	Pure Sine Wave									
Soft Start	YES									
THD/AC Regulation	THD<3%(LinearLoad)									
Output Efficiency	94%MAX									
Cooling Way	Intelligent Cooling Fan									
Protection	"Battery Low Voltage & Over Voltage, Over Load, Over Temperature,Short Circuit"									
WorkingTemperature	-10°C-+50°C									
Dimension(L*W*H) (cm)	19.5*11.2*6.0	23.2*15*7.8	32.6*16.5*8.7	36.2*16.5*8.7	45.6*20.6*12.2	46*21*8.6	46.5*21.6*15.6	46.5*21.6*15.6	51.8*20*14.5	66*30*23.5
Meas./Ctn(L*W*H) (cm)	51*49*30.7 /18pcs	63*34*38.5 /10pcs	67.5*37.3*29.7 /6pcs	52*47.5*38 /4pcs	52*47.5*38 /4pcs	53.5*51.5*27.5 /1pcs	57.5*31.5*25 /1pcs	57.5*31.5*25 /1pcs	64.3*30*23.5 /1pcs	74*30*23.5 /1pcs
N.W./Unit(kg)	1.0KG	2.0KG	3.1KG	4.3KG	4.02KG	6.1KG	10KG	10.5KG	12KG	14KG
G.W./Ctn	23KG	24KG	22KG	20KG	24.5KG	28KG	12KG	12.5KG	14KG	18KG
Packing	Honeycomb carton									
Warranty	2 Years									

F

Power Supply

YCPC Series Pure Sine Wave Inverter With Charger

OVERLOAD PROTECTION

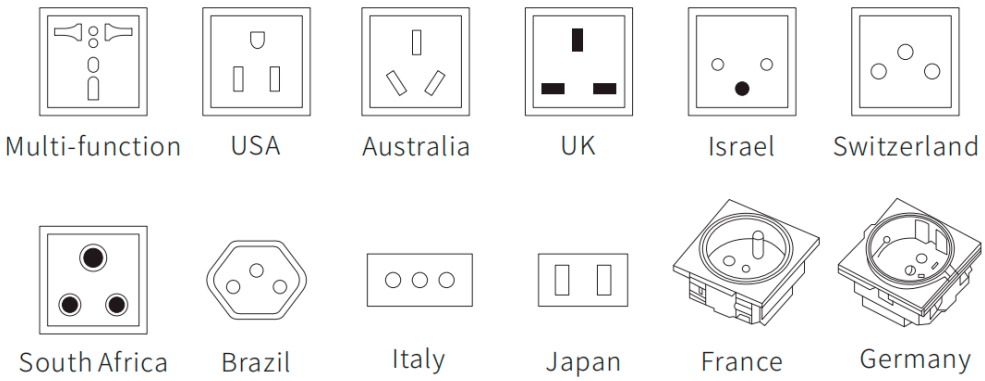
OVER TEMPERATURE PROTECTION

SHORT CURRENT PROTECTION

LOW/OVER VOLTAGE PROTECTION

Model Specification	YCPC500	YCPC1000	YCPC1500	YCPC2000	YCPC3000	YCPC4000	YCPC5000
Rated Power	500W	1000W	1500W	2000W	3000W	4000W	5000W
Surge Power	1000W	2000W	3000W	4000W	6000W	8000W	10000W
Input Voltage	12/24/48VDC					24/48VDC	
Output Voltage	110/220VAC±5%						
USB Port	5V 2A						
Frequency	50Hz ± 3 or 60Hz±3						
Output Waveform	Pure Sine Wave						
Soft Start	YES						
THD/AC Regulation	10/20/30A optional						
Output Efficiency	Grid first						
Cooling Way	<10 ms						
Protection	Intelligent Cooling Fan						
WorkingTemperature	Battery Low Voltage & Over Voltage, Over Load,Over Temperature,Short Circuit						
Dimension(L*W*H)(cm)	36.5*16.5*9	40*16.5*9	43.5*16.5*11.3	43.5*16.5*11.3	45*21.2*15.2	49.7*21.6*15.1	73.5*30.8*24
Meas./Ctn(L*W*H)(cm)	49.5*48*31.5 /4pcs	55*47.5*31.5 /4pcs	57*47*38.5 /4pcs	57*47*38.5 /4pcs	63.5*30.8*24 /1pcs	63.5*30.8*24 /1pcs	61*21.6*15.1 /1pcs
N.W./Unit(kg)	2.8KG	3.62KG	5.04KG	5.04KG	8.9KG	11.14KG	13.56KG
G.W./Ctn	13.76KG	4.06KG	5.92KG	5.92KG	10.12KG	13.4KG	16.08KG
Packing	Carton				Honeycomb carton		
Warranty	2 Years						

Select socket type



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YCM Modified Sine Wave Inverter

OVERLOAD PROTECTION

OVER TEMPERATURE PROTECTION

SHORT CURRENT PROTECTION

LOW/OVER VOLTAGE PROTECTION

Model Specification	YCP300	YCP500	YCP1000	YCP1500	YCP2000	YCP3000	YCP4000	YCP5000	YCP6000	YCP8000
Rated Power	300W	500W	1000W	1500W	2000W	3000W	4000W	5000W	6000W	8000W
Surge Power	600W	1000W	2000W	3000W	4000W	6000W	8000W	10000W	12000W	16000W
Input Voltage	12/24/48VDC							24/48VDC		
Output Voltage	110/220VAC±5%									
USB Port	5V 1A									
Frequency	50Hz ± 3 or 60Hz±3									
Output Waveform	Pure Sine Wave									
Soft Start	YES									
THD/AC Regulation	THD<3%(LinearLoad)									
Output Efficiency	94%MAX									
Cooling Way	Intelligent Cooling Fan									
Protection	"Battery Low Voltage & Over Voltage, Over Load, Over Temperature,Short Circuit"									
WorkingTemperature	-10°C-+50°C									
Dimension(L*W*H) (cm)	19.5*11.2*6.0	23.2*15*7.8	32.6*16.5*8.7	36.2*16.5*8.7	45.6*20.6*12.2	46*21*8.6	46.5*21.6*15.6	46.5*21.6*15.6	51.8*20*14.5	66*30*23.5
Meas./Ctn(L*W*H) (cm)	51*49*30.7 /1.8pcs	63*34*38.5 /1.0pcs	67.5*37.3*29.7 /6pcs	52*47.5*38 /4pcs	52*47.5*38 /4pcs	53.5*51.5*27.5 /1pcs	57.5*31.5*25 /1pcs	57.5*31.5*25 /1pcs	64.3*30*23.5 /1pcs	74*30*23.5 /1pcs
N.W./Unit(kg)	1.0KG	2.0KG	3.1KG	4.3KG	4.02KG	6.1KG	10KG	10.5KG	12KG	14KG
G.W./Ctn	23KG	24KG	22KG	20KG	24.5KG	28KG	12KG	12.5KG	14KG	18KG
Packing	Honeycomb carton									
Warranty	2 Years									

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MSQ Current Transformer

General

MSQ current transformer is suitable for indoor use, with a maximum voltage of 0.66kV and below, a load power factor of 0.8, and a rated frequency of 50/60Hz in AC circuits for measuring or metering current and electrical energy. Installed by fixing the busbar or bottom plate, the transformer has a window in the middle that can be used for a single busbar or cable to pass through.

Standard: IEC61869-2.

Operating conditions

1. The altitude shall not exceed 1000m.
2. The operating environment temperature for the 2 transformers is: indoor -5 ° C~40 ° C
3. The three transformers are for indoor use, and other usage conditions considered are as follows:
   a. The impact of solar radiation can be ignored;
   b. There is no obvious pollution of dust, smoke, corrosive gases, steam or salt in the ambient air;
   c. The humidity conditions are as follows:
      i. The average relative humidity measured within 24 hours shall not exceed 95%;
      ii. The average water vapor pressure within 24 hours shall not exceed 2.2kPa;
      iii. The average relative humidity within one month shall not exceed 90%;
      iv. The average water vapor pressure within one month shall not exceed 1.8kPa.

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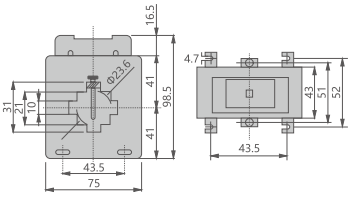
Type designation

Current transformer		The maximum width that can be achieved through the mother row (mm)	Current transformation ratio
MSQ	-	30	30/5A
/		/	/

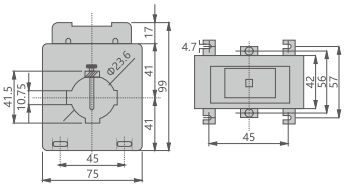
MSQ Current Transformer

Technical data

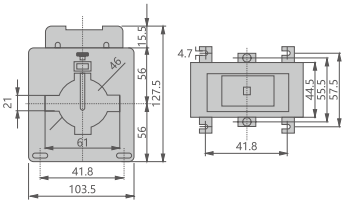
MSQ-30

Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions(mm)
	Class 0.5	Class 1.0		
30/5		1	1	
40/5		1	1	
50/5		1	1	
60/5	1	1	1	
75/5	1.5	1.5	1	
80/5	2.5	2.5	1	
100/5	2.5	5	1	
150/5	5	5-10	1	
200/5	5	5-10	1	
250/5	5	5-10	1	
300/5	5	5-10	1	

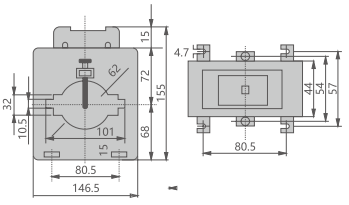
MSQ-40

100/5	2.5	2.5	1	
150/5	5	3	1	
200/5	5	5	1	
250/5	5	5	1	
300/5	5	5	1	
400/5	5	5	1	
500/5	5	5	1	

MSQ-60

250/5	5	5	1	
300/5	5	5	1	
400/5	5	5	1	
500/5	5	5	1	
600/5	10	10	1	
750/5	10	10	1	
800/5	10	10	1	
1000/5	15	15	1	

MSQ-100

1500/5	15	15	1	
1600/5	15	15	1	
2000/5	15	15	1	
2250/5	15	15	1	
2500/5	15	15	1	
3000/5	15	15	1	

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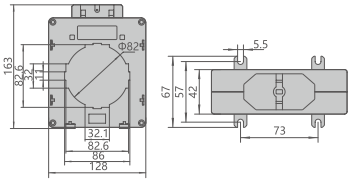
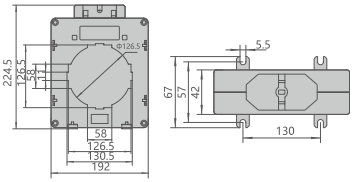
MSQ Current Transformer

Technical data

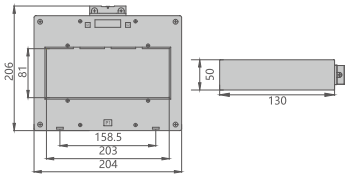
MSQ-85

Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions(mm)
	Class 0.5	Class 1.0		
1000/5	2.5	5	1	
1250/5	5	5-10	1	
1600/5	5	5-10	1	
2000/5	5	5-10	1	
2500/5	5	5-10	1	

MSQ-125

1500/5	15	15	1	
1600/5	15	15	1	
2000/5	20	20	1	
2500/5	20	20	1	
3000/5	20	20	1	
3200/5	20	20	1	
4000/5	20	20	1	

MSQ-200

2000/5	20	20	1	
2500/5	20	20	1	
3000/5	20	20	1	
3200/5	20	20	1	
4000/5	20	20	1	
5000/5	20	20	1	
6000/5	20	20	1	

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RCT Current Transformer

General

RCT type is indoor type current transformer. It is suitable for using in the circuit whose rated voltage is up to 0.5kv, frequency 50 Hz to do the current, power measuring or relay production. This moulded case current transformer has small size and light weight, panel fixing.

Type designation

R CT - □

- □ — Mandrel aperture
- CT — Current transformer
- R — Annulus

Operating conditions

1. Working place: Indoor
2. Ambient temperature: -5°C~40°C
3. Humidity: < 80%
4. Altitude: < 1000m
5. Atmospheric conditions: no serious pollution

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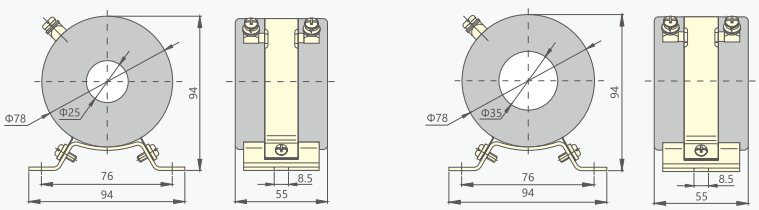
Technical data

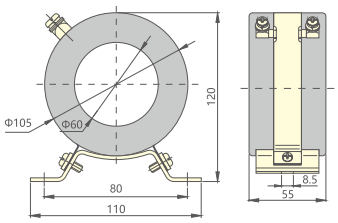
	Current ratio (A)	Capacity (VA)		Mandrel turns
		class 0.5	class 1.0	
RCT-25	75/5	2.5	2.5	1
	100/5	2.5	2.5	1
RCT-35	75/5	2.5	2.5	1
	100/5	2.5	2.5	1
	150/5	5	5	1
	200/5	5	5	1
	250/5	5	5	1
	300/5	5	5	1

Overall and mounting dimensions(mm)

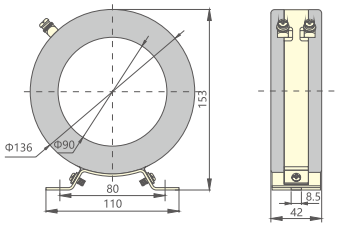


RCT Current Transformer

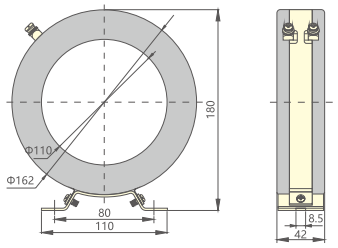
RCT-60

Current ratio (A)	Capacity (VA)		Mandrel turns	Overall and mounting dimensions(mm)
	Class 0.5	Class 1.0		
400/5	5	5	1	
500/5	10	10	1	
600/5	10	10	1	
750/5	10	10	1	
800/5	10	10	1	
1000/5	10	10	1	
1200/5	10	10	1	

RCT-90

800/5	10	10	1	
1000/5	10	10	1	
1200/5	10	10	1	
1500/5	10	10	1	
1600/5	10	10	1	

RCT-110

1500/5	10	10	1	
1600/5	10	10	1	
2000/5	20	20	1	
2500/5	20	20	1	
3000/5	20	20	1	

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Ordering information

Following information should be specified when ordering:

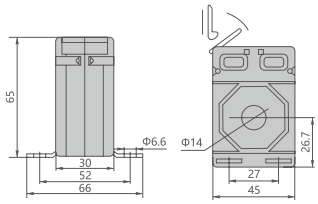
1. Type and window width
2. Current ratio
3. Accuracy
4. Also could be customized according to customer's requirement.

YCP Current Transformer

Technical data

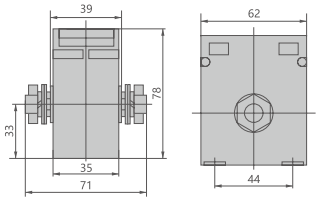
YCP-45/14

Current ratio (A)	Capacity (VA)				Mandrel turns	Overall and mounting dimensions(mm)
	Class 3.0	Class 1.0	Class 0.5	Class 0.2		
30/5	1				1	
40/5	1				1	
50/5		1.5			1	
60/5		2.5			1	
75/5		2.5			1	
80/5		2.5			1	
100/5		2.5			1	



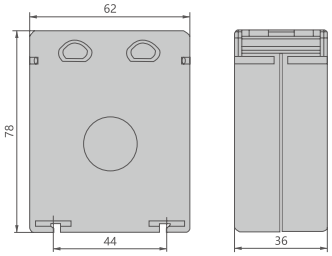
YCP-62/WS

5/5		5	5		1
10/5		5	5		1
30/5		5	5		1
40/5		5	5		1
50/5		5	5		1
60/5		5	5		1
75/5		5	5		1
80/5		5	5		1



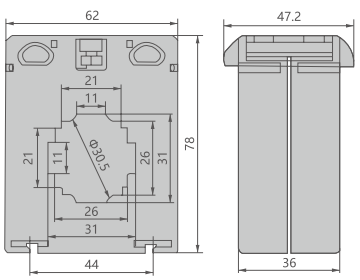
YCP-62/20

30/5	1				1
40/5	1				1
50/5		2.5			1
60/5		2.5			1
75/5		2.5			1
80/5		2.5			1
100/5		2.5			1
150/5		5			1



YCP-62/30

40/5	1				1
50/5	2.5	1.5			1
60/5	2.5	1.5			1
75/5		2.5			1
80/5		2.5			1
100/5			2.5		1
150/5			2.5		1
200/5			5		1
250/5			5		1
300/5			5		1



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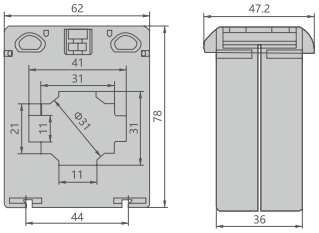
YCP Current Transformer

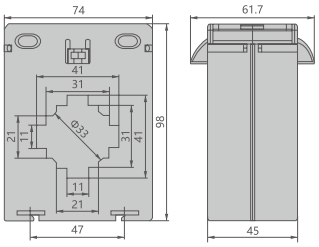
YCP-62/40

Current ratio (A)	Capacity (VA)				Mandrel turns	Overall and mounting dimensions(mm)
	Class 3.0	Class 1.0	Class 0.5	Class 0.2		
150/5		2.5			1	
200/5		5			1	
250/5			5		1	
300/5			5		1	
400/5			5		1	
500/5			5		1	
600/5			7.5		1	



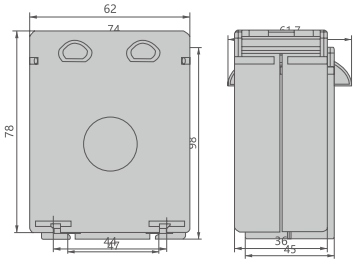
YCP-74/40

200/5			5		1	
250/5			5		1	
300/5			5		1	
400/5			5		1	
500/5			10		1	
600/5			10		1	
800/5			10	5	1	



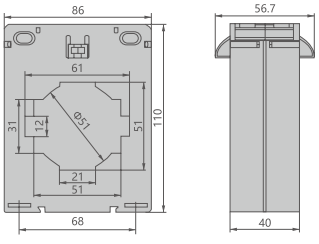
YCP-74/50

300/5			5		1	
400/5			5		1	
500/5			5		1	
600/5			15		1	
800/5			15	5	1	
1000/5			15	5	1	



YCP-86/60

500/5			5		1	
600/5			5		1	
800/5			10	5	1	
1000/5			15	5	1	
1200/5			15	5	1	
1500/5			15	5	1	



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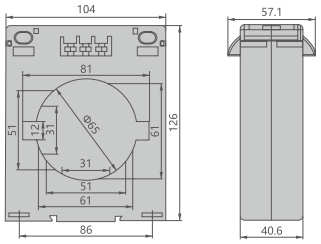
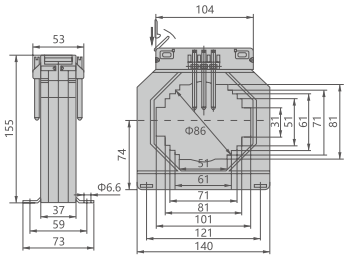
YCP Current Transformer

YCP-104/80

Current ratio (A)	Capacity (VA)				Mandrel turns	Overall and mounting dimensions(mm)
	Class 3.0	Class 1.0	Class 0.5	Class 0.2		
800/5			15	5	1	
1000/5			15	5	1	
1200/5			30	5	1	
1500/5			30	10	1	
1600/5			30	10	1	
2000/5			30	10	1	

YCP-140/100

800/5			15	5	1	
1000/5			15	5	1	
1200/5			15	5	1	
1500/5			20	5	1	
1600/5			20	10	1	
2000/5			30	15	1	
2500/5			30	15	1	
3000/5			*30	*15	1	

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* Long term use of 100% rated primary current, order has to be specified.

BSMJ Self-healing Shunt Capacitor

General

Self-healing low voltage shunt power capacitor is used in 50Hz and 60Hz power system, it mainly improves power factor, reduces reactive power loss, improves voltage quality and so on. It is the best power-saving products which is highly recommended by our company.

Standards: IEC60831-1:2017

Type designation

B S MJ 0.45 - 15 - 3

- 3: Phase (3 indicated that three-phase, one that single-phase)
- 15: Rated capacity (Kvar)
- 0.45: Rated voltage (0.45kV)
- MJ: Media code (metallized polypropylene film)
- S: impregnated in Microcrysta
- B: Shunt capacitor

Operating conditions

1. Compacted and light: Its volume and weight are only 1/4 and 1/5 of the old product because of the using of a new dielectric-metallized polypropylene film.
2. Low loss: The real figure is lower than 0.10%, so the loss of the capacitor itself is extremely low, and the heat it gives out is little and the rise of temperature is low, so its service life is very long and it can save energy at the same time.
3. Excellent self-healing ability: Damage of part of the dielectric caused by over-voltage can be self-healed quickly and return to normal state, so the reliability is much higher.
4. Safety: Built-in self-discharge resistor and safety equipment. The self-discharge resistor can automatically discharge the electric energy the capacitor carries. If there is anything fault with the capacitor, the safety equipment will cut off power in time, thus prevent further troubles from happening. So it's much safer to use this kind of capacitor.
5. No oil leakage: The capacitor uses advanced semi-soild impregnant whose drip melting point is above 70°C. There will be no loss of oil during the course of using it, thus to protect the surroundings from being polluted. The capacitor itself dose not have to run the risk of invalidation caused by oil leakage.

BSMJ Self-healing Shunt Capacitor

Technical data

1. Sevice conditions: ambient temperature-25 °C~+50°C, humidity≤85% RH, and altitude lower than 2000m.
2. Rated voltage:250VAC,400VAC,525VAC,690VAC,750VAC,1050VAC.
3. Rated output:1~100kvar.
4. Capacitance tolerance:-5~+10%
5. Tangent of the loss angel: With the power frequency rated voltage, tg6≤0.1% at 20 °C.
6. Withstand voltage: Between terminals 2.15 times rated voltage for 10 seconds, between terminals and container 3kVAC for 10 seconds.
7. Max permissible over-voltage:110% rated voltage.
8. Max permissible over-current:130% rated current.
9. Self sustained discharge ability: Give 2Un DC voltage to capacitor, the residual voltage reduced to 75V or lower within 3 minutes after power off.

Model BSMJ	Rated volt (kV)	Rated capacity (Kvar)	Rated capacity (μF)	Rated current (A)	H (mm)	Outgoing terminal	Drawing No.
0.4-1-3	0.4	1	19.9	1.4	105	M6	1
0.4-2-3	0.4	2	39.8	2.9	105	M6	1
0.4-3-3	0.4	3	59.7	4.3	125	M6	1
0.4-4-3	0.4	4	79.6	5.8	125	M6	1
0.4-5-3	0.4	5	99.5	7.2	125	M6	1
0.4-6-3	0.4	6	119.4	8.7	125	M6	1
0.4-7.5-3	0.4	7.5	149.2	10.8	125	M6	1
0.4-8-3	0.4	8	159.2	11.6	125	M6	1
0.4-10-3	0.4	10	198.9	14.4	125	M6	1
0.4-12-3	0.4	12	238.7	17.3	180	M6	1
0.4-14-3	0.4	14	278.5	20.2	210	M6	1
0.4-15-3	0.4	15	298.4	21.7	210	M6	1
0.4-16-3	0.4	16	318.3	23.1	210	M6	1
0.4-18-3	0.4	18	358.1	26.0	245	M6	1
0.4-20-3	0.4	20	397.9	28.9	245	M6	1
0.4-22-3	0.4	22	437.7	31.8	210	M8	2

BSMJ Self-healing Shunt Capacitor

Model BSMJ	Rated volt (kV)	Rated capacity (Kvar)	Rated capacity (μF)	Rated current (A)	"H (mm)"	Outgoing terminal	Drawing No.
0.4-24-3	0.4	24	477.4	34.6	210	M8	2
0.4-25-3	0.4	25	497.4	36.1	210	M8	2
0.4-28-3	0.4	28	557.3	40.4	260	M8	2
0.4-30-3	0.4	30	596.8	43.3	260	M8	2
0.4-35-3	0.4	35	696.3	50.5	260	M8	2
0.4-40-3	0.4	40	796.2	57.7	330	M8	2
0.4-45-3	0.4	45	895.2	65.0	230	M10	3
0.4-50-3	0.4	50	995.2	72.2	230	M10	3
0.4-55-3	0.4	55	1094.2	79.4	230	M10	3
0.4-60-3	0.45	60	1194.3	86.6	230	M10	3
0.45-1-3	0.45	1	15.7	1.3	105	M6	1
0.45-2-3	0.45	2	31.4	2.6	105	M6	1
0.45-3-3	0.45	3	47.2	3.8	125	M6	1
0.45-4-3	0.45	4	62.9	5.1	125	M6	1
0.45-5-3	0.45	5	78.6	6.4	125	M6	1
0.45-6-3	0.45	6	94.3	7.7	125	M6	1
0.45-7.5-3	0.45	7.5	117.9	9.6	125	M6	1
0.45-8-3	0.45	8	125.8	10.3	125	M6	1
0.45-10-3	0.45	10	157.2	12.8	125	M6	1
0.45-12-3	0.45	12	188.6	15.4	180	M6	1
0.45-14-3	0.45	14	220.1	18.0	210	M6	1
0.45-15-3	0.45	15	235.8	19.2	210	M6	1
0.45-16-3	0.45	16	252.5	20.5	210	M6	1
0.45-18-3	0.45	18	282.9	23.1	210	M6	1
0.45-20-3	0.45	20	314.4	25.7	210	M6	1
0.45-22-3	0.45	22	345.8	28.3	210	M8	2
0.45-24-3	0.45	24	377.3	30.8	210	M8	2
0.45-25-3	0.45	25	393.2	32.1	210	M8	2
0.45-28-3	0.45	28	440.3	35.9	210	M8	2
0.45-30-3	0.45	30	471.8	38.5	210	M8	2
0.45-35-3	0.45	35	550.2	44.9	260	M8	2
0.45-40-3	0.45	40	629.1	51.3	260	M8	2
0.45-45-3	0.45	45	707.7	57.7	230	M10	3
0.45-50-3	0.45	50	786.3	64.2	330	M8	2
0.45-55-3	0.45	55	864.5	70.6	230	M10	3
0.45-60-3	0.525	60	943.6	77.5	230	M10	3
0.525-5-3	0.525	5	57.7	5.5	125	M6	1
0.525-10-3	0.525	10	115.5	11.0	180	M6	1
0.525-15-3	0.525	15	173.2	16.5	210	M6	1
0.525-16-3	0.525	16	184.8	17.6	210	M6	1
0.525-18-3	0.525	18	207.9	19.8	210	M6	2
0.525-20-3	0.525	20	231.0	22.0	210	M6	2
0.525-25-3	0.525	25	288.9	27.5	210	M8	2
0.4-22-3	0.4	22	437.7	31.8	210	M8	2

F

BSMJ Self-healing Shunt Capacitor

Model BSMJ	Rated volt (kV)	Rated capacity (Kvar)	Rated capacity (μF)	Rated current (A)	H (mm)	Outgoing terminal	Drawing No.
0.525-30-3	0.525	30	346.6	33.0	260	M8	2
0.525-40-3	0.525	40	462.2	44.0	330	M8	2
0.525-50-3	0.525	50	577.7	55.0	230	M10	3
0.525-60-3	0.525	60	693.3	66.0	230	M10	3
0.69-5-3	0.69	5	33.4	4.2	125	M6	1
0.69-10-3	0.69	10	66.9	8.4	180	M6	1
0.69-15-3	0.69	15	100.3	12.6	210	M6	1
0.69-16-3	0.69	16	107.0	13.4	210	M6	1
0.69-20-3	0.69	20	133.8	16.7	210	M6	2
0.69-25-3	0.69	25	167.2	20.9	210	M6	2
0.69-30-3	0.69	30	200.7	25.1	260	M8	2
0.69-40-3	0.69	40	267.4	33.5	330	M8	2
0.69-50-3	0.69	50	334.3	41.9	230	M10	3

Note: Other special specifications and models can be provided according to user requirements.

Overall and mounting dimensions(mm)

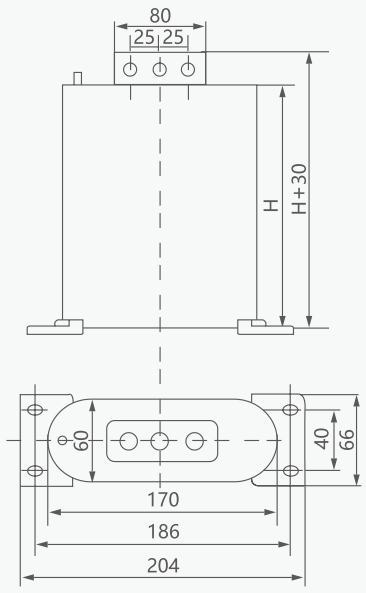

Figure 1

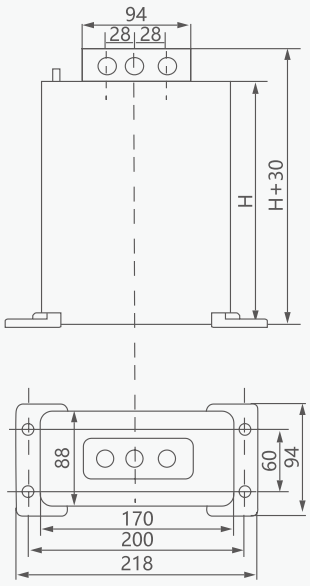

Figure 2

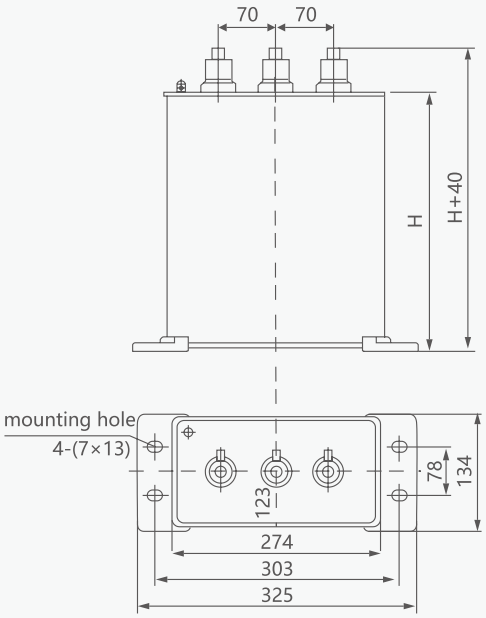

Figure 3

BGMJ Self-healing Shunt Capacitor

General

BGMJ capacitors are gas dry-type self-healing capacitors with built-in aluminum cans. The dielectric consists of low loss matellized poly-propylene film and protective gas. The capacitors have smaller dimension, long operation life, high AC load capacity and can be installed in any position because of the gas dry construction. Motor starting and moving capacitor can be supplied.

Standards: IEC60831-96

Type designation

B G MJ 0.4 - 15 - 3

- 3: Phase: 3: three-phase 1: single-phase
- 15: Rated capacity (three-phase stands for three-phase total capacity)
- 0.4: Line voltage kV
- MJ: Metallized polypropylene film
- G: Cylindrical
- B: Shunt capacitor

Operating conditions

1. Capacitors, contactors, fuses and electrical connections generate heat dissipation(about 2.5 W/kvar total or 8 W/kvar with series reactors).
2. Specific precautions must be taken in order not to exceed temperature values of-25C/+55C(class D) category around the capacitors inside the cubicle.(refer to “Installation Guide”for more information).
3. The airflow inside the cubicle must go from bottom to top.
4. User is advised to check the harmonic content in the system before installation of capacitor. In case of high harmonics content in the network, it is necessary to use specifically adapted capacitors with additional series reactors to avoid resonance phenomena(detuned reactors).
5. The use of inappropriate capacitor will reduce its life time.
6. Use switching devices designed for capacitor switching duty if the capacitors are used alone. User can select normal contactor for switching with inrush current limiter such as detuned reactors.
7. Protection devices such as MCB, MCCB must be used along with every capacitor steps in a power factor correction panel or used for standalone PF compensation After switching off a capacitor,a delay of at least 1 minute must be allowed before switching on again to ensure the discharge of individual capacitor step/unit before re-connection.
8. All operations described in this user manual must be carried out in compliance with safety standards under the responsibility of a competent authority.
9. To access installed capacitors: Switch off main power supply.
10. Switch off power supply control circuit. Allow capacitor discharge time(1 minute)
11. Short circuit and earth the terminals to ensure that capacitoirs are fully discharged.

BGMJ Self-healing Shunt Capacitor

Operating conditions

1. Using Condition:-25 °C/+50 °C Humidity≤90% RH Altitude≤2000m
2. Over-voltage Permited:1.0Un, 1.1Un 8h/d, 1.3Un 1min
3. Over-Current Permitted:1.3In
4. Impact Current:≤300In
5. Allowable offset on Reactive-load Power:-5-+10%
6. Loss Angle Tangent(Power Frequency Rated Voltage): tg 6 ≤0.0015
7. Dielectric Loss:≤0.25W/kvar
8. Testing Voltage: Between Poles 2.15Un 10s Between and Housing 3000VAC 60s

Model BGMJ	Rated volt (V)	Rated capacity (Kvar)	Rated capacity (μF)	Rated current (A)	Rated frequencies Hz	Dimension (mm)	Connection	Bottom bolt	Drawing No.
0.25-2.5-3	250	2.5	127.4	5.8	50	76×180		M12×16	1
0.25-3-3	250	3	152.8	6.9	50	76×180		M12×16	1
0.25-4-3	250	4	203.8	9.2	50	76×240		M12×16	1
0.25-5-3	250	5	254.7	11.7	50	96×240		M16×25	2
0.25-6-3	250	6	305.7	13.9	50	96×240		M16×25	2
0.25-7.5-3	250	7.5	382.1	17.3	50	96×240		M16×25	2
0.25-8-3	250	8	407.6	18.5	50	96×240		M16×25	2
0.25-10-3	250	10	509.4	23.1	50	106×290		M16×25	2
0.25-12.5-3	250	12.5	636.8	28.9	50	106×290		M16×25	2
0.28-2.5-3	280	2.5	101.5	5.2	50	76×180		M12×16	1
0.28-3-3	280	3	121.8	6.2	50	76×180		M12×16	1
0.28-4-3	280	4	162.4	8.2	50	76×240		M12×16	1
0.28-5-3	280	5	203	10.3	50	76×240		M16×25	2
0.28-6-3	280	6	243.7	12.4	50	76×240		M16×25	2
0.28-7.5-3	280	7.5	304.6	15.5	50	96×240		M16×25	2
0.28-8-3	280	8	325	16.5	50	96×240		M16×25	2
0.28-10-3	280	10	406.1	20.6	50	96×240		M16×25	2
0.28-12.5-3	280	12.5	507.6	25.8	50	106×240		M16×25	2
0.45-2.5-3	450	2.5	39.3	3.2	50	76×180	Δ	M12×16	1
0.45-3-3	450	3	47.1	3.9	50	76×180	Δ	M12×16	1
0.45-4-3	450	4	62.8	5.1	50	76×180	Δ	M12×16	1
0.45-5-3	450	5	78.5	6.4	50	76×180	Δ	M12×16	1
0.45-6-3	450	6	94.2	7.7	50	76×180	Δ	M12×16	1
0.45-7.5-3	450	7.5	117.8	9.6	50	76×180	Δ	M12×16	1
0.45-8-3	450	8	125.6	10.2	50	76×240	Δ	M12×16	1
0.45-10-3	450	10	157	12.8	50	76×240	Δ	M12×16	1
0.45-12.5-3	450	12.5	196.3	16	50	76×240	Δ	M12×16	1
0.45-15-3	450	15	235.5	19.2	50	96×240	Δ	M16×25	2

BGMJ Self-healing Shunt Capacitor

Model BGMJ	Rated volt (V)	Rated capacity (Kvar)	Rated capacity (μF)	Rated current (A)	Rated frequencies Hz	Dimension (mm)	Connection	Bottom bolt	Drawing No.
0.45-16-3	450	16	251.2	20.5	50	96×240	Δ	M16×25	2
0.45-20-3	450	20	314	25.6	50	96×240	Δ	M16×25	2
0.45-25-3	450	25	392.5	32	50	106×240	Δ	M16×25	2
0.45-30-3	450	30	471	38.5	50	106×290	Δ	M16×25	2
0.48-2.5-3	480	2.5	34.5	3.0	50	76×180	Δ	M12×16	1
0.48-3-3	480	3	41.4	3.6	50	76×180	Δ	M12×16	1
0.48-4-3	480	4	55.2	4.8	50	76×180	Δ	M12×16	1
0.48-5-3	480	5	69	6.0	50	76×180	Δ	M12×16	1
0.48-6-3	480	6	82.8	7.2	50	76×180	Δ	M12×16	1
0.48-7.5-3	480	7.5	103.5	9.0	50	76×240	Δ	M12×16	1
0.48-8-3	480	8	110.4	9.6	50	76×240	Δ	M12×16	1
0.48-10-3	480	10	138	12	50	76×240	Δ	M12×16	1
0.48-12.5-3	480	12.5	172.5	15	50	96×240	Δ	M16×25	2
0.48-15-3	480	15	207	18	50	96×240	Δ	M16×25	2
0.48-16-3	480	16	220.8	19.2	50	96×240	Δ	M16×25	2
0.48-20-3	480	20	276	24.1	50	106×240	Δ	M16×25	2
0.48-25-3	480	25	345	30.1	50	106×290	Δ	M16×25	2
0.525-5-3	525	5	57.8	5.5	50	76×180	Δ	M12×16	1
0.525-7.5-3	525	7.5	86.6	8.3	50	76×180	Δ	M12×16	1
0.525-10-3	525	10	115.5	11	50	76×180	Δ	M12×16	1
0.525-12.5-3	525	12.5	144	13.8	50	76×240	Δ	M12×16	1
0.525-15-3	525	15	173.3	16.5	50	96×240	Δ	M16×25	2
0.525-20-3	525	20	231	22	50	106×240	Δ	M16×25	2
0.525-25-3	525	25	288.8	27.5	50	106×290	Δ	M16×25	2

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Overall and mounting dimensions(mm)

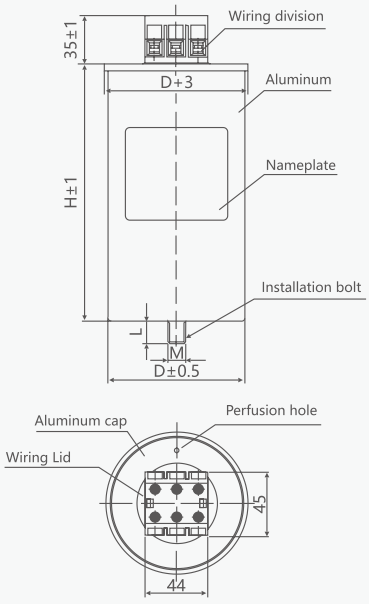

Figure 1

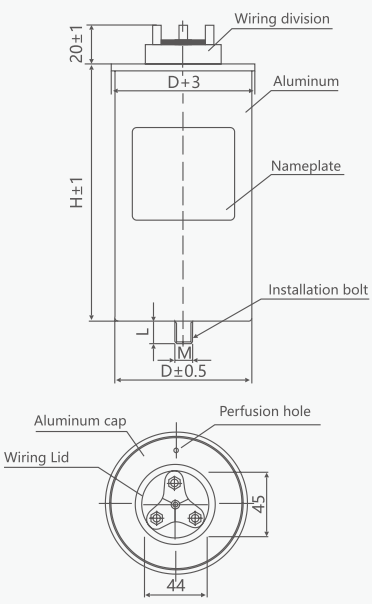

Figure 2

YCZN Intelligent Capacitor

General

YCZN Intelligent Capacitor is an integrated reactive power compensation device designed for 0.4kV power grids. It consists of measurement and control module, capacitor switching and composite switch, capacitor protection module, and two (▲ type) or one (Y type) low-voltage self-healing capacitor, forming an independent and complete intelligent compensation unit.

The low-voltage reactive power compensation device composed of intelligent capacitors offers several advantages, including flexible compensation modes, easy installation and maintenance, strong protection functions, compact size, excellent compensation effectiveness, low power consumption, and high reliability. It meets the fine requirements of users for improving power factor, enhancing power quality, and reducing energy losses through reactive power compensation.

When applied in industrial and mining enterprises with harmonic currents, it is recommended to use intelligent capacitors with reactive impedance to mitigate harmonics.

Type designation

Product name		Functions	Compensation modes	Rated voltage		Rated capacity	Reactor reactance rate
YCZN	-	K	S	480	/	10+10	7%
YCZN	-	No code: Standard model K: Anti-harmonic function	Three-phase compensation	450: AC450V 480: AC480V (with function K)	/	5+5:(5+5)Kvar 10+5:(10+5)Kvar 10+10:(10+10)Kvar 20+10:(20+10)Kvar 20+20:(20+20)Kvar 25+25:(25+25)Kvar 30+30:(30+30)Kvar	7% 14%
			Phase-splitting compensation	250: AC250V 280: AC280V (with function K)		5:5Kvar 10:10Kvar 15:15Kvar 20:20Kvar 25:25Kvar 30:30Kvar 40:40Kvar	

Use environment

Ambient temperature: -20°C~+55°C

Relative humidity: ≤20% at 40°C; ≤90% at 20°C

Altitude: ≤2500m

Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration

YCZN Intelligent Capacitor

Techniacal data

Power conditions		
Working voltage		Shared compensation: AC 450V ± 20% Phase-splitting compensation: AC 250V ± 20%
Harmonic voltage		Sinusoidal wave, total harmonic distortion ≤ 5%"\
Rated frequency		50/60HZ
Power consumption		≤3VA
Reactive power compensation parameters		
Reactive power compensation error		≤50% of the minimum capacitor capacity
Capacitor switching time		≥ 10s, adjustable from 10s to 180s
Measurement error		
Voltage		±0.5%
Current		±0.5%
Power factor		±1%
Temperature		±1° C
Protection error		
Voltage		±0.5%
Current		±0.5%
Temperature		±1° C
Time		±0.1s
Reliability parameters		
Permissible switching times		100 1 million times
Capacitor capacity	Run time decay rate	≤1%/ year
	Switching decay rate	≤1%/ million times

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YCZN Intelligent Capacitor

Compensation modes	Model	Capacitor rated voltage (V)	Rated capacity (Kvar)	Reactance rate
Conventional three-phase shared compensation	YCZN-S 450/5+5	450	10	/
	YCZN-S 450/10+5	450	15	
	YCZN-S 450/10+10	450	20	
	YCZN-S 450/20+10	450	30	
	YCZN-S 450/20+20	450	40	
	YCZN-S 450/25+25	450	50	
	YCZN-S 450/30+30	450	60	
Conventional phase-splitting compensation	YCZN-F 250/5	250	5	
	YCZN-F 250/10	250	10	
	YCZN-F 250/15	250	15	
	YCZN-F 250/20	250	20	
	YCZN-F 250/25	250	25	
	YCZN-F 250/30	250	30	
	YCZN-F 250/40	250	40	
Anti-harmonic three-phase shared compensation	YCZN-KS 480/10	480	10	7%/14%
	YCZN-KS 480/20	480	20	7%/14%
	YCZN-KS 480/30	480	30	7%/14%
	YCZN-KS 480/40	480	40	7%/14%
	YCZN-KS 480/50	480	50	7%/14%
Anti-harmonic phase-splitting compensation"	YCZN-KF 280/5	280	5	7%/14%
	YCZN-KF 280/10	280	10	7%/14%
	YCZN-KF 280/15	280	15	7%/14%
	YCZN-KF 280/20	280	20	7%/14%
	YCZN-KF 280/25	280	25	7%/14%
	YCZN-KF 280/30	280	30	7%/14%

YCZN Intelligent Capacitor

Product functional equivalence diagram

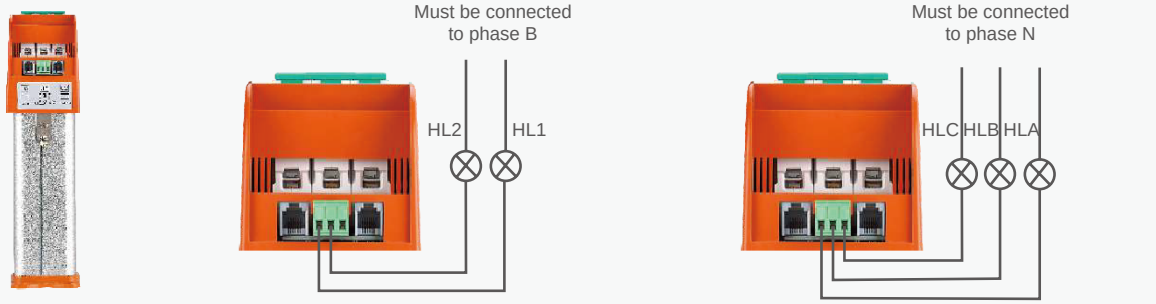
Conventional shared compensation

6kA,15kA breaking type	1 controller	2 circuit breaker	2 composite switch	2 reactor	2 capacitor

YCZN-K anti-harmonic integrated intelligent capacitor	1 controller	1 circuit breaker	1 composite switch	1 reactor	1 capacitor

Wiring diagram

Standard model



Product Rear View	Shared compensation type	380V switching indicator	Phase- splitting compensation type	220V switching indicator

Note: The indicator lights are connected using multicore copper wires with a cross-sectional area of 0.75 mm2.

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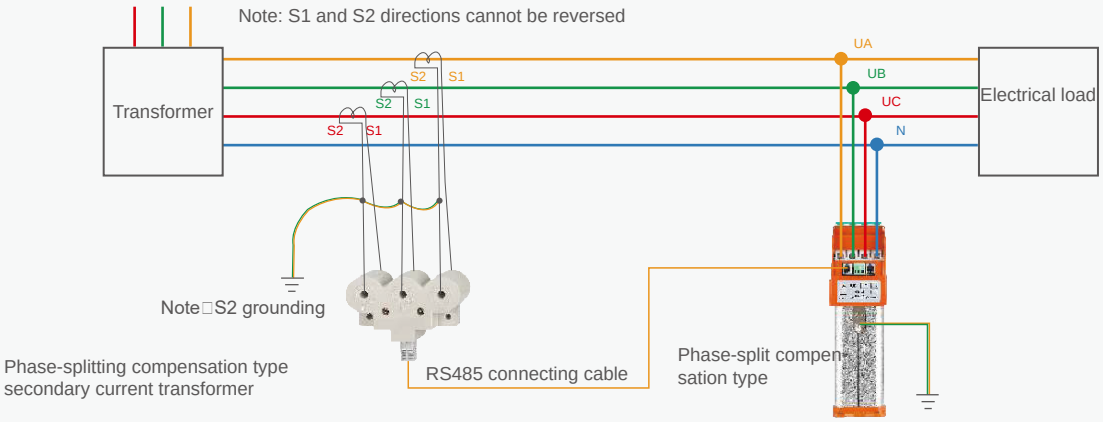
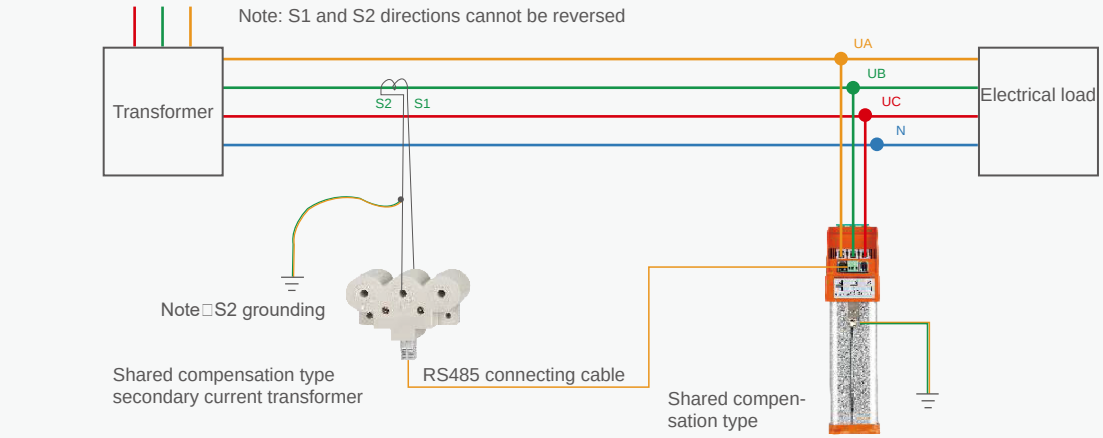
YCZN Intelligent Capacitor

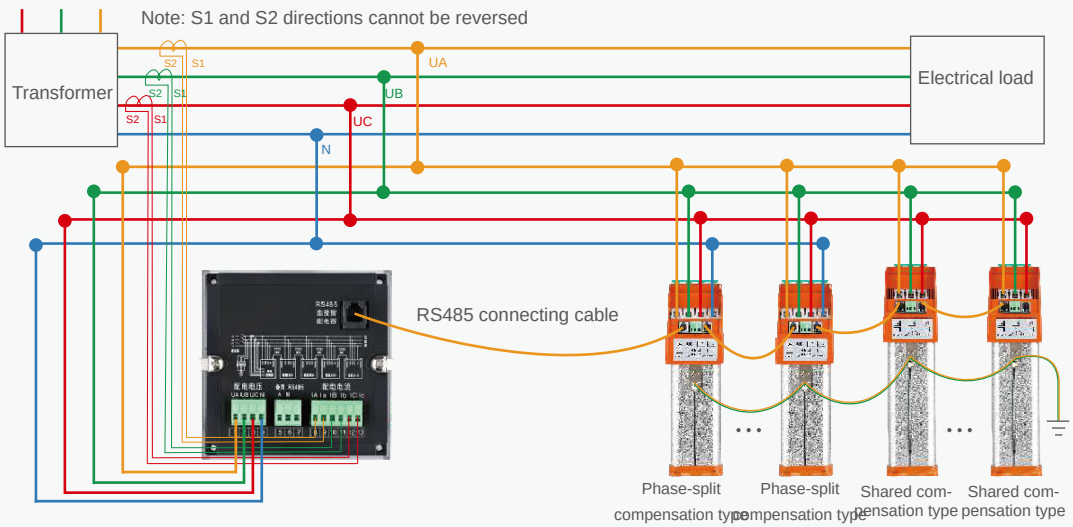
Single phase-splitting compensation wiring diagram (without controller)



Single phase shared compensation wiring diagram (without controller)



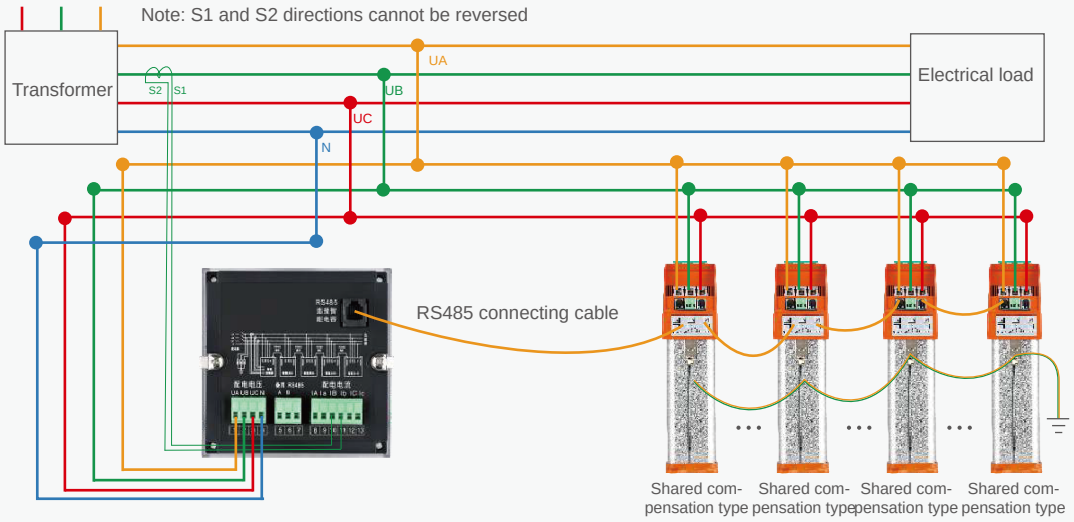
Three-phase mixed compensation wiring diagram (with controller)



Note: Phase-splitting + Shared phase compensation Total number of capacitor≤32 units

YCZN Intelligent Capacitor

Three-phase shared compensation wiring diagram (with controller)



Note: Shared phase compensation Total number of capacitor≤32 units

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YCFK Intelligent Capacitor Switching

General

The YCFK intelligent capacitor switching device uses thyristor switch and magnetic holding switch in parallel operation. It has the advantage of controllable silicon zero-crossing switch at the moment of connection and disconnection, and zero power consumption of the magnetic holding switch during normal connection. This switch has significant advantages such as no impact, low power consumption, and high lifespan, and can replace contactors or thyristor switches. It is widely used in low-voltage reactive power compensation systems.

Type designation

Product name		Compensation modes		Rated voltage		Rated capacity	Reactor reactance rate	Communication mode
YCFK	-	△	-	400	-	45	S	R
YCFK	-	△ :Three-phase Common Compensation	-	400: AC400V	-	45: 45A 63: 63A 80: 80A	S: (Standard version) D: (With circuit breaker)	/: RS-485 R: RJ45
		Y:Three-phase Individual Compensation		250: AC250V				

Note: For Three-phase Individual Compensation (Y), the maximum rated current reaches 63A; the rated current corresponds to the compensation capacitor capacity as shown in the table.

Use environment

Environmental temperature: -20°C to +55°C

Relative humidity: ≤90% at 40°C

Altitude: ≤2500m

Environmental conditions: No harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibrations.

YCFK Intelligent Capacitor Switching

Technical data

Rated working voltage	Common compensation AC380V ±20% / Separate compensation AC220V ±20%
Rated frequency	50Hz
Rated current	45A, 63A, 80A
Control capacitor capacity	Three-phase ≤50Kvar Delta connection; Single-phase ≤30Kvar Y connection
Power consumption	≤1.5VA
Service life	300,000 times
Contact voltage drop	≤100mV
Contact withstand voltage	>1600V
Response time:	1000ms
Time interval between each connection and disconnection	≥5s
Time interval between each connection and disconnection	≥5s
Control signal	DC12V ±20%
Input impedance	≥6.8KΩ
Conduction impedance	≤0.003Ω
Inrush current	<1.5In

YCFK-□S(Standard type)

Compensation method	Model	Control capacity (Kvar)	Control current(A)	Number of poles	Adaptation controller
Three-phase Common Compensation	YCFK-△-400-45S	≤ 20	45	3P	JKWD5
	YCFK-△-400-63S	≤ 30	63	3P	JKWD5
	YCFK-△-400-80S	≤ 40	80	3P	JKWD5
Phase compensation	YCFK-Y-400-45S	≤ 20	45	A+B+C	JKWF
	YCFK-Y-400-63S	≤ 30	63	A+B+C	JKWF

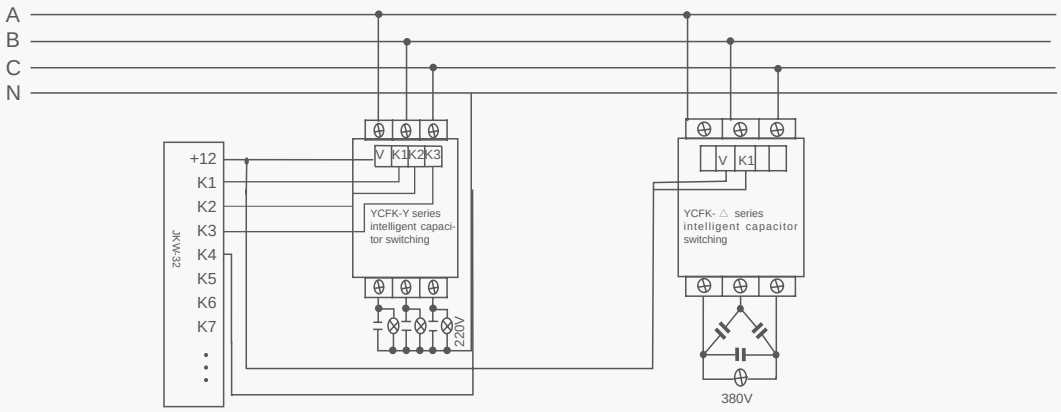
YCFK-□D(with circuit breaker)

Compensation method	Model	Control capacity (Kvar)	Control current(A)	Number of poles	Adaptation controller
Three-phase Common Compensation	YCFK-△-400-45D	≤ 20	45	3P	JKWD5
	YCFK-△-400-63D	≤ 30	63	3P	JKWD5
Phase compensation	YCFK-Y-400-45D	≤ 20	45	A+B+C	JKWF
	YCFK-Y-400-63D	≤ 30	63	A+B+C	JKWF

YCFK Intelligent Capacitor Switching

Wiring diagram

YCFK Hybrid Compensation Wiring Diagram, DC12V Control Method



Precautions:

Before use, it is essential to carefully check the terminal screws of the main circuit connection. They must be securely tightened; otherwise, loose screws during operation can easily lead to damage to the switch.

(The incoming and outgoing wire terminals of this product are equipped with anti-loosening self-locking nuts, effectively ensuring that the prod-uct does not experience secondary loosening of the connections due to factors such as transportation and vibrations after the connections are securely made.)

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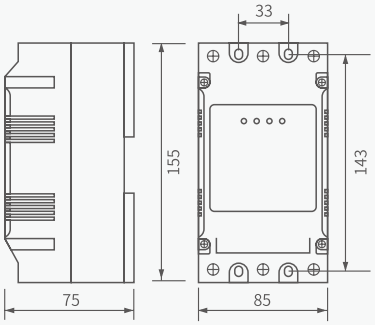
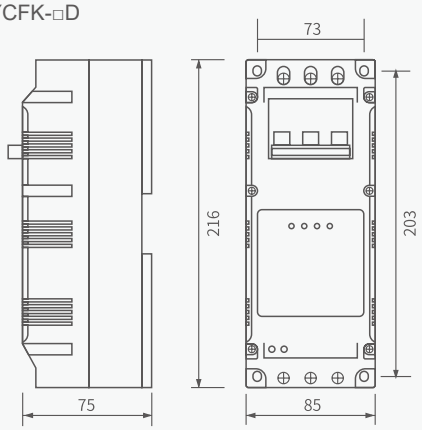
Overall and mounting dimensions (mm)

YCFK-□S



YCFK-□D



JKW5C Reactive Power Auto-compensation Controller

General

JKW5C series intelligert reactive power automatic compensation controller is especially used to control reactive power compensation in low-voltage distribution system, can be matched with various type of low-voltage static capacitance screen.Each has five specifications of 4, 6, 8, 10 and 12 output ways. This machine adopts the advanced technology from home and abroad, possesses advantages of small volume, light weight, complete functions, strong anti-jamming, stable and reliable operation, accurate compensation, etc. It is designed according to JB/T9663-1999 the latest nation a professional standard; approved by the national qualitymonitoring center of power control distribution equipments, and passed the type test.

Full digital design, AC sampling;

Adhering to the people-oriented design concept, modular assembly and appearance streamline design;

Real-time display of power factor, voltage, current, reactive power and capacitor switching state;

English prompt and digital input for setting parameters;

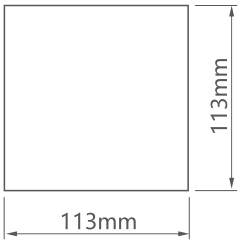
Capacitor control scheme supports power factor cyclic switching compensation or precise compensation of reactive power. The compensation scheme can be set through menu operation;

It has two working modes: manual compensation and automatic compensation;

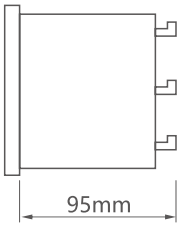
Sampling physical quantity is power factor or reactive power.

Features

- Altitude: ≤2500m Ambient temperature: -20°C~ +60°C
- Storage temperature:-40°C ~+70°C ,Environmental condition: without explosive and flammable dangerous medium, without corrosive metal gas and the conducitive dust that may damage the electric insulation.The installation site has no violent vibration and no rain or snow erosion.
- Measuring data: Measuring voltage: 100V ~ 500V
  Measuring current: 0~6000A(primary current)
  Sensitivity: 50mA(Secondary current)
  Measuring power factor: lag o.2 ~ lead 0.2
- Rated voltage: 380V±20%
- Measuring frequency: 47Hz ~ 53Hz
- Active power: 0~6553Kw reactive power: 0~6553Kvar
- Display performance:
- LED digital display, data display refresh period≤1s

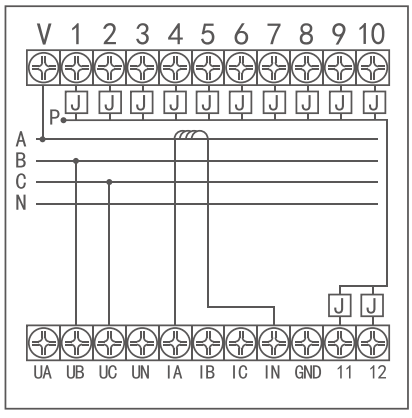


Hole size:113mm x113mm

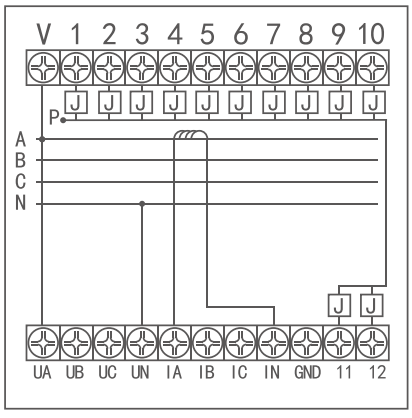


Insert depth:95mm

Wiring diagram



JKW5C-380V
voltage sampling wiring diagram



JKW5C-220V
voltage sampling wiring diagram

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JKW-32 Reactive Power Compensation Controller

JKW-32

JKW-32H

General

JKW-32 series intelligent low-voltage reactive power automatic compensation controller (referred to as the controller) is a new generation of reactive power compensation controller designed and developed using dedicated power parameter acquisition chips and MCU processors. The product has an aesthetically pleasing appearance and is easy to install and use. It can be connected to intelligent capacitors through a 485 communication data line.

Standard: JB/T 9663-2013

Type designation

Product name		Control circuit	Display method
JKW	-	32	H
JKW		32: Control circuit	No code: LED display H: LCD display

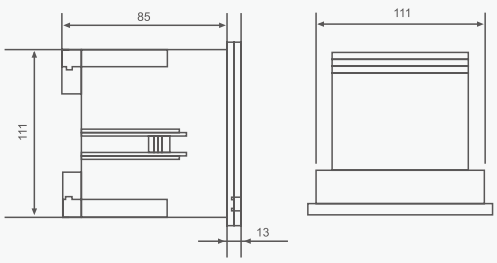
Type designation

1. Ambient temperature: -20°C~+55°C
2. Relative humidity: 20%~90% at 40°C
3. Altitude: ≤2000m
4. Environmental conditions: No flammable and insuring media, conductive dust and corrosive gases exist

Technical data

Rated working voltage	AC220V±20%
Frequency	50HZ
Power consumption	≤10VA
Sampling current analog	≤5A
Sensitivity	≤0.1Ω
Action error	≤200mA
Clock error	≤±2.0%
Current analog input impedance	<1s/d
Measurement accuracy	Voltage, current, power factor 1.0 level, reactive power,active power accuracy higher than 2.0 level
Protection degree	IP30

Overall and mounting dimensions (mm)



Overall dimensions and opening dimensions	Mounting hole size
120mm(W)×120mm(H)×85mm(D)	111mm(W)×111mm(H)