

DC Variable Frequency Drives

YCB2200PV Series DC Variable Frequency Drive



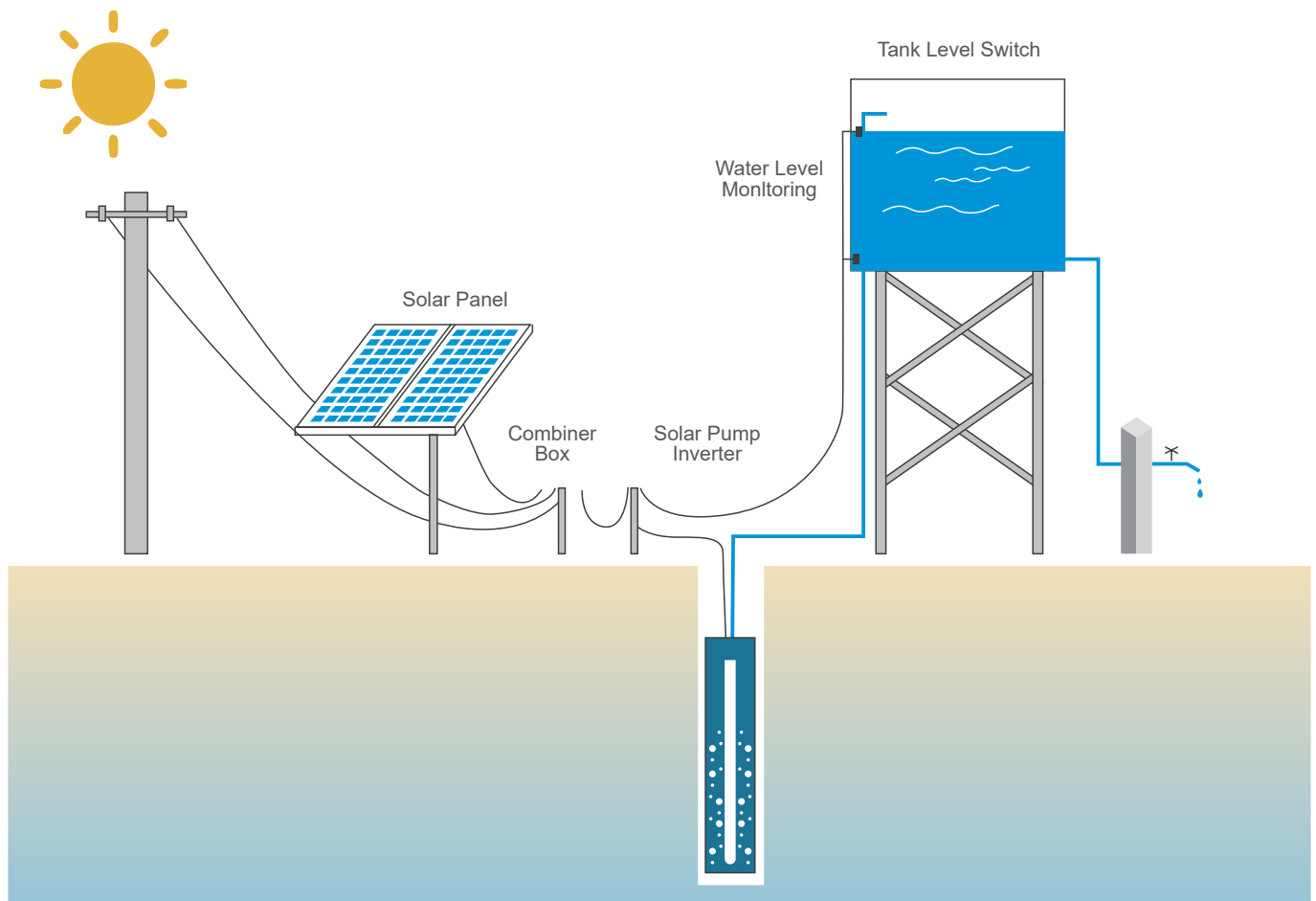
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Solar pumping system

The YCB2200PV solar pumping system serves to provide water in remote applications where electrical grid power is either unreliable or unavailable. The system pumps water using a high-voltage DC power source such as a photovoltaic array of solar panels. Since the sun is only available during certain hours of a day and only in good weather conditions, the water is generally pumped into a storage pool or tank for further usage. And water sources are those natural or special such as river, lake, well or waterway, etc.

Solar pumping system is constituted by solar module array, combiner box, liquid level switch, solar pump etc. It aims at providing solutions for the region that suffers water shortage, no power supply or uncertain power supply.



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In order to satisfy the demands of various pumping applications, YCB2200PV solar pump controller adopts Max Power Point Tracking and proven motor drive technology to maximize output from solar modules. It supports both single phase or three-phase AC input such as a generator or inverter from battery. The controller provides fault detection, motor soft start, and speed control. YCB2200PV controller is designed to proceed these features with the plug and play, ease of installation.

Type designation

YCB2200PV - T 5D5 G

Model	Output voltage	Adaptive power	Load type
YCB2200PV	T	5D5	G
YCB2200PV	S: Three phase AC220V T: Three phase AC380V	0D75:0.75KW 1D5:1.5KW 2D2:2.2KW 4D0:4.0KW 5D5:5.5KW 7D5:7.5KW 011:11KW 015:15KW 110:110KW	G: Constant torque

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Flexibility

- Compatible with IEC standard threephase asynchronous induction motors
- Compatible with popular PV arrays
- Grid supply option

Remote monitoring

- Standard Rs485 interface equipped for each solar pump controller
- Optional GPRS/Wi-Fi/Ethernet Rj45 modules for remote access
- Spots value of solar pump parameters monitoring available from anywhere
- History of solar pump parameters and events lookup support
- Android/iOS monitoring APP support

Cost effectiveness

- Plug-and-play system design
- Embedded motor protection and pump functions
- Battery-free for most applications
- Effortless maintenance

Reliability

- 10-year market proven experience of leading motor and pump drive technology
- Soft start feature to prevent water hammer and increase system life
- Built-in overvoltage, overload, overheat and dryrun protection

Smartness

- Self-adaptive maximum power point tracking technology up to 99% efficiency
- Automatic regulation of pump flow
- Self-adaptation to the motor used in the installation

Protection

- Surge protection
- Overvoltage protection
- Undervoltage protection
- Locked pump protection
- Open circuit protection
- Short circuit protection
- Overheat protection
- Dry run protection

General data

Ambient Temperature Range: -20°C~60°C,
> 45°C, Derating as required

Cooling Method: Fan Cooling

Ambient Humidity: ≤95%RH



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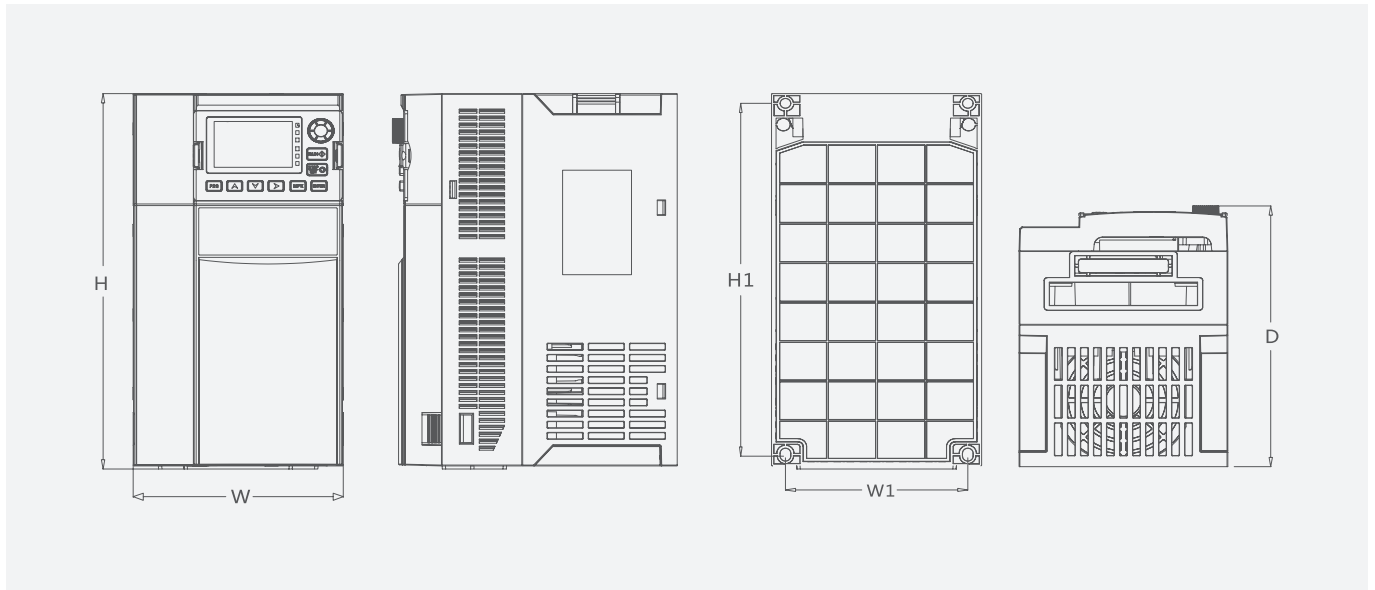
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Models	Rate current(A)	DC input range(VDC)	Output voltage(VAC)	Applicable for pumps (KW)	Recommended voc(VDC)
YCB2200PV-S0D75G	4.0	150~450	220~240	0.75	360~400
YCB2200PV-S1D5G	7.5	150~450	220~240	1.5	360~400
YCB2200PV-S2D2G	10.0	150~450	220~240	2.2	360~400
YCB2200PV-T0D75G	2.5	250~900	380~440	0.75	650~700
YCB2200PV-T1D5G	3.7	250~900	380~440	1.5	650~700
YCB2200PV-T2D2G	5.0	250~900	380~440	2.2	650~700
YCB2200PV-T4D0G	10.0	250~900	380~440	4	650~700
YCB2200PV-T5D5G	13.0	250~900	380~440	5.5	650~700
YCB2200PV-T7D5G	17.0	250~900	380~440	7.5	650~700
YCB2200PV-T011G	25.0	250~900	380~440	11	650~700
YCB2200PV-T015G	33.0	250~900	380~440	15	650~700
YCB2200PV-T018G	38.0	250~900	380~440	18.5	650~700
YCB2200PV-T022G	45.0	250~900	380~440	22	650~700
YCB2200PV-T030G	60.0	250~900	380~440	30	650~700
YCB2200PV-T037G	75.0	250~900	380~440	37	650~700
YCB2200PV-T045G	91.0	250~900	380~440	45	650~700
YCB2200PV-T055G	110.0	250~900	380~440	55	650~700
YCB2200PV-T075G	150.0	250~900	380~440	75	650~700
YCB2200PV-T090G	180.0	250~900	380~440	90	650~700
YCB2200PV-T110G	210.0	250~900	380~440	110	650~700

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Overall and mounting dimensions(mm)



External dimension

Models	Dimensions(mm)			Installation dimensions(mm)		Cut-outs(mm)
	H	W	D	H1	W1	d
YCB2200PV-S0D75G	197.2	89.6	139	187	74	5
YCB2200PV-S1D5G						
YCB2200PV-S2D2G						
YCB2200PV-T0D75G						
YCB2200PV-T1D5G						
YCB2200PV-T2D2G						
YCB2200PV-T4D0G	202	102	162	190.5	90	5
YCB2200PV-T5D5G						
YCB2200PV-T7D5G						
YCB2200PV-T011G	242.5	125	170	228	108.5	5
YCB2200PV-T015G						
YCB2200PV-T018G						
YCB2200PV-T022G	297	165	206	278	147	6
YCB2200PV-T030G						
YCB2200PV-T037G						
YCB2200PV-T045G						
YCB2200PV-T055G	435	230	230	418	150	7
YCB2200PV-T075G						
YCB2200PV-T090G						
YCB2200PV-T110G	510	260	255	200	493	7
YCB2200PV-T055G						
YCB2200PV-T075G	580	270	300	564	200	7
YCB2200PV-T090G						
YCB2200PV-T110G	620	320	300	600	260	9
YCB2200PV-T110G						

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Scenic spot of daocheng yading, shangri-la:

System installed in Scenic Spot of Daocheng Yading, Shangri-la to cloth barren mountains with greenery scene. 3pcs 37kW solar pumps, 3PCS YCB2200PV-T037G Solar Pump Controllers.

System capacity:160KW

Panels:245W

Altitude:3400M

Pumping height:250M

Flow:69M /H

