

Solar DC Pump Controller Technical Datasheet



Model		HBDC750			HBDC1500	
Compatible Motor Types		2,3,4,5,6,7,8,9,10 Pole Pairs BLDC Motor			2,3,4,5,6,7,8,9,10 Pole Pairs BLDC Motor	
Compatible DC PUMP Voltage		Compatible with 24V, 36V, 48V, 72V DC Pump			Compatible with 96V,110V DC Pump	
Solar Panel DC Input	Max Voc Voltage	150V			240V	
	Min Vmp Voltage	20V			70V	
	Recommend MPPT Vmp Voltage	> Motor Voltage			> Motor Voltage	
	Max MPPT Efficiency	98%			98%	
	Max Input Current	18 A			18 A	
	Number Of Strings MC4	1 (+,-)			1 (+,-)	
	Note	Automatic MPPT Function to Identify the Voc and Vmp of Solar Panel,without programming				
Battery Input	Voltage	24 / 36 / 48 /72 V Depend on the Pump Voltage			96 /110 V Depend on the Pump Voltage	
	Max Input Current	18A			18 A	
	Battery Protection Voltage MIN, RECOVERY,MAX	21.3V 23V 30V @ 24V	32.5V 35V 40V @ 36V	42.6V 46V 52V @ 48V	86.4V 92V 108.8V @96V	
DC Output Parameters	Max Adapted DC Pump Horse Power	1 HP			2HP	
	Max Adapted DC Pump Power	750W			1500W	
	Drive Mode	3Phase Variable Speed Drive			3Phase Variable Speed Drive	
	Output Voltage	24 / 36 / 48V/ 72V			96V/ 110V	
	Max Output Current	16A			16A	
Water level Sensor(well / tank)		Yes			Yes	
Display		LCD screen. Photovoltaic voltage, current, output voltage, current, speed, frequency, internal temperature.				
Waterproof		IP65				
Noise		Low Noise				
Cooling Method		Natural cooling			Force Cooling by Fan (IP67)	
Protection		Solar DC Input Over-Voltage Solar DC Input Anti-reverse Battery Low Voltage/Over Voltage Protection Output Phase lost Output Short Circuit Output Over Current Input Over Load Over Temperature Water Over Flow of Tank(By Sensor) Well Water Empty(By Sensor)				
WIFI/4G Remote Control		Optional				
Working Time Control		Settable working time, Remote Control via Wi-Fi/4G Module				
Operating Envirnment	Operating environment temperature	-10 to 60℃, Above 60℃ need to derate load				
	Max Humidity	95%RH				
	Using altitude	< 3000m, Above 3000m need to derate load				
	Others	Prohibiting the installation location: direct sunlight, thick dust, corrosive gas or oil mist, flammable gas, liquid.etc				
Package	Size	25*24*16CM			32*25*16CM	
	Weight	3KG			3.5KG	