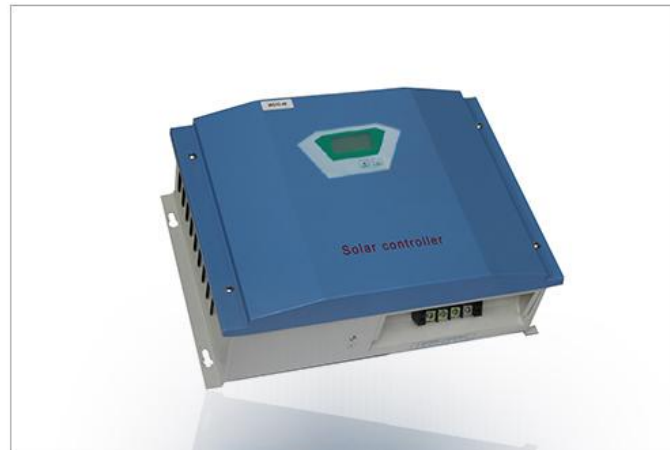


LS Series Solar Controller

Machine



System Diagram



Applications

- Household solar power generation system
- Power supply for those unmanned regions like mobile communication station, high way, the coastal islands, remote mountainous regions and border posts.

Features

- High efficiency PWM charging control circuit
- Easy structure, strong function
- LCD display, parameters visible
- Accumulated solar generated power visible
- RS232/RS485/RJ45/GPRS/Bluetooth/Zigbee optional
- Compatible with standard MODBUS protocol

Technical Parameters

Model	WS50-48	WS50-120	WS50-240	WS100-240	WS200-240
PV Input					
Rated input power	5KW	5KW	5KW	10KW	20KW
Max. Open circuit voltage	96V	240V	480V	480V	480V
Rated input current	105A	42A	21A	42A	84A
Charge Parameters					
Rated battery voltage	48V	120V	240V	240V	240V
Temperature compensation function(optional)	-3mV/°C/2V				
Output Parameters					
Output overvoltage point	56V (factory default, 44Vdc~64Vdc settable)	140V (factory default , 110Vdc~160Vdc settable)	280V (factory default , 220Vdc~320Vdc settable)		
Output overvoltage recovery point	It will recover charging when the voltage is less than the output overvoltage point				
Max. Output current	105A	42A	21A	42A	84A
General Parameters					

Display mode	LCD				
Display information	Battery voltage,PV voltage,PV current, PV power, accumulative solar power generation capacity				
Monitoring mode(optional)	RS232/RS485/RJ45/GPRS/Bluetooth/Zigbee				
Monitoring Contents	Real-time display:Battery voltage, PV voltage, PV current and PV power, accumulative solar power generation capacity				
	Parameters setting: dump load voltage point				
Protection function	Lightning protection,PV reversed connection protection, reversed charging protection, and battery reversed connection protection.				
Conversion efficiency	≥95%				
Static loss	<3W	<3W	<5W	<4W	<4W
Environment temperature	-20℃ ~ +40℃				
Humidity	0~90%, No condensing				
Noise	≤65dB				
Cooling mode	Natural cooling				
Installation mode	Wall-mounted				
Cover protection class	IP20				
Product dimension(W*H*D)	440×305×170mm				
Product net weight	7kg			8kg	
Note: Part of parameters can be adjusted according to customer's specific demand.					