

BS Series MPPT Solar Charge Controller

Feature:

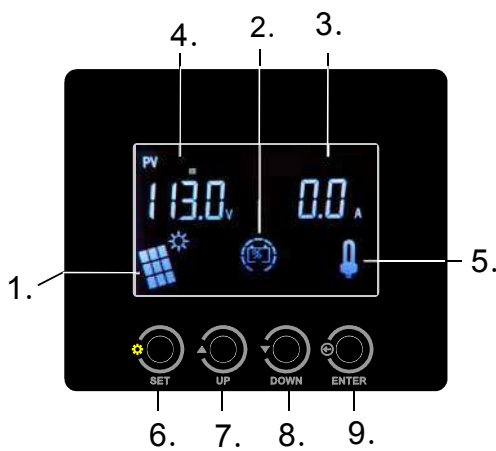
- 230A/40A/50A/60A/80A/100A/120A/150A MPPT solar charge controller
- 12V/24V auto work, 12V/24V/48V auto work, 48V/96V auto work
- The latest MPPT algorithm automatically tracks the maximum power point Point Of The Solar Panel MPPT tracking efficiency is up to 99%, and conversion Efficiency is up to 98%
- With TI DSP chip, digital with up to 12-bit accuracy guarantees MPPT accuracy
- PV input voltage range is wide, users can choose different numbers of solar panels according to actual conditions.
- Under the maximum benefit of energy collection conditions, fast Charging, absorption charging, floating charging, etc. maintain the battery life.
- Supporting Lead-acid battery / Gel battery, Lithium battery, user-defined battery
- Display: can display PV voltage, PV power, battery voltage, charging current, working temperature, fault code
- With over charge, over discharge, overload, open circuit protection, over temperature protection, short circuit automatic protection



Introduction:

MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

LCD Display Information:



NO	LCD Display	Contents Descriptions
1	PV	PV Input symbol
2	Battery	Battery capacity
3	PV	PV Input Charge current
4	PV	PV Input voltage
5	DC OUTPUT	DC Output symbol
6		Set and exit button
7		UP button
8		DOWN button
9		Confirm button

1、Solar input voltage / current



2、battery voltage / charging current



3、DC output and DC output current



4、Working mode and fault code / temperature



5、PV power input / Total solar power generation 6、Press SET to enter the setting page.



Specification

Model		20A	30A	40A	30A	40A	50A	60A	80A	100A	120A	150A	
Default Battery System Voltage(VDC)		12VDC/24VDC(auto work)			12VDC/24VDC/48VDC(auto work)					48VDC/96VDC(auto work)			
Controller Input	PV Open Circuit Voltage	90VDC@12V@24V			130VDC@12V; 130VDC@24V 160VDC@48V; 180VDC@96V					180VDC@48V 280VDC@96V			
	PV Array MPPT Voltage Range	15VDC~90VDC@12V ; 30VDC~90VDC@24V			15VDC~130VDC@12V ; 30VDC~130VDC@24V 60VDC~160VDC@48V ;120VDC~180VDC@96V					60VDC~180VDC@48V 120VDC~280VDC@96V			
	Max PV Input Power(12V)	240W	360W	480W	360W	480W	600W	720W	960W	1200W	1440W	1800W	
	Max PV Input Power(24V)	480W	720W	960W	720W	960W	1200W	1440W	1920W	2400W	2880W	3600W	
	Max PV Input Power(36V)-Setting	720W	1080W	1440W	1080W	1440W	1800W	2160W	2880W	3600W	4320W	5400W	
	Max PV Input Power(48V)	/	/	/	1440W	1920W	2400W	2880W	3840W	4800W	5760W	7200W	
	Max PV Input Power(96V)	/	/	/	/	/	4800W	5760W	/	9600W	11520W	14400W	
Battery	Max Charging Current	20A	30A	40A	30A	40A	50A	60A	80A	100A	120A	150A	
	Peak Conversion efficiency	98% (MPPT Efficiency 99%)											
	Absorption Voltage	12.5VDC/25.0VDC/37.5VDC/50.0VDC/100.0VDC											
	Refloat Voltage	13.7VDC/27.4 VDC/41.4VDC/54.8VDC/109.6VDC											
	Float Voltage	14.3VDC/28.6 VDC/42.9VDC/57.4VDC/114.8VDC											
	Low Voltage Protection Point	10VDC/20.0 VDC/ 30.0VDC/40.0VDC/80.0VDC											
DC output	DC Output Voltage Range	10.0VDC~14.5VDC / 20VDC~29.0VDC / 30.0VDC~43.5VDC / 40.0VDC~58.0VDC/ 80.0VDC~116.0VDC											
	Max Output Current	30A(Max)											
	Low Battery Cutoff	10.25VDC/20.5 VDC/30.75VDC/41.0VDC/82.0VDC											
	Under Voltage Shutdown	10.0VDC/20.0 VDC/30.0VDC/40.0VDC/80.0VDC											
	Under Voltage Recovery	12.6VDC/25.2 VDC/37.8VDC/50.4VDC/100.8VDC											
Display	content	PV Voltage, PV Power, Battery Voltage, Charging Current, Working Temperature, Fault Code											
	Code	N1	MPPT Tracking Mode										
		N2	Solar Input Is Too Low										
		N3	Battery Limited Voltage Charging Mode										
		E1	The Internal Temperature Of The Controller Is Too High										
		E2	Automatic Identification Of Battery Voltage Level Failed										
		E3	Solar Input Voltage Is Too High										
		E5	Input Battery Voltage Is Too High										
		E6	Input Battery Voltage Is Too Low										
E7	Load Output Current Overcurrent												
Other	Radiating mode	Fan cooling											
	Operation Temperature Range	-10°C ~ 50°C											
	Ambient humidity	0~90% relative humidity(non-condensing)											
	Environmental Rating	Indoor											
	Coommunications	RS-485,WI-FI(Optional)											
Appearance	Product Size(L*W*H)(MM)	230*160*65			250*180*85			270*190*100			370*278*130		
	Packing Size(L*W*H)(MM)	520*380*335			470*308*390			550*350*510			470*370*210		
	PCS/CTN	16	16	16	6	6	6	6	6	1	1	1	
	Net Weight (kg)	1.2	1.3	1.4	1.8	1.8	3.2	3.3	3.7	8	8.5	9	
	Gross Weight (kg)	19	20	21	20	21	19	20	24	10	11	12	
	Warranty	1year											

*Product Specifications are subject to change without further notice

