Introduction

This is a MPPT (maximum Power Point Tracking) smart solar controller, with charging and discharging function, increasing 30%~60% efficiency than traditional PWM controller. It has automatic recognition function, three Stages charging function, also supports many kinds of battery charging and discharging, RS232 communication etc, It's our company's MPPT solar controller e-SMART series.

Features

- 1. MPPT charging mode, peak efficiency up to 99%;
- 2. DC12V/24V/48V battery system automatic recognition;
- 3. Maximum PV input voltage up to DC100V;
- 4. Three stages charge: fast charge(MPPT), constant voltage charge, floating charge;
- 5. Three option of discharge: on mode and off mode and PV voltage(solar) control mode.
- 6. Users can choose 4 kinds of commonly standard batteries(Sealed lead acid, Vented, Gel, NiCd);
- 7. Digital tube can display battery voltage and charging current;
- 8. RS232 communication, we can offer communication protocol also;
- 9. This controller can be paralleled infinitely.
- 10. CE, RoHS and FCC Certifications are approved.
- 11. 2 years warranty; 3~10 years extended technical service.

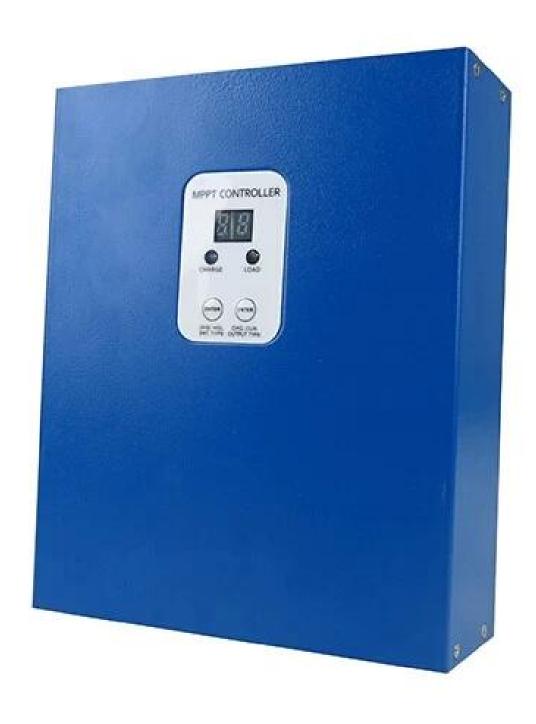
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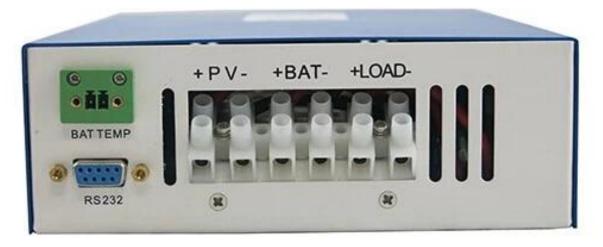
MPPT solar controller modes I-P-e-SMART-12V/24V/48V-series		40A
Charge mode	MPPT(maximum power point tracking)	
Charge method	Three stages: constant current(MPPT),constant voltage,floating charge	
System type	DC12V/24V/48V	Automatic recognition
System voltage	12V system	DC9V~DC15V
	24V system	DC18V~DC30V
	48V system	DC36V~DC60V
Soft start time	12V/24V/48V system	≤3\$

recovery and rangesystem P00005 MPPT efficiency 12V/24V/48V system 296.5%, ≤99% MPPT working 12V system DC30-DC100V 24V system DC30-DC100V 24V system DC30-DC100V 24V system DC30-DC100V 24V system DC30V 24V	Dynamic response	12V/24V/48V				
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Input Overvoltage Protection Check the input characteristics	<u> </u>		'			
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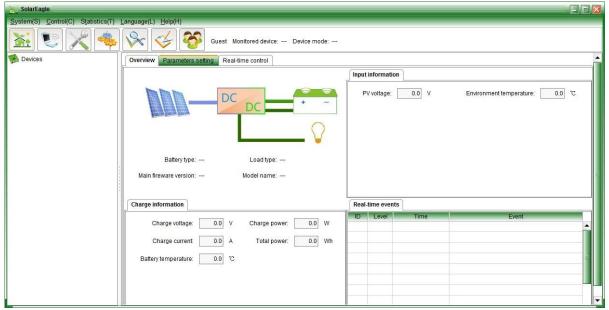
Low Voltage output Protection	yes					
Rated output Current protection	yes					
Temperature Protection	yes					
Other Parameters						
Noise	≤40dB					
Thermal heat-dissipating method	Itself cooling	fan cooling				
Components	Imported material, with EU standards.					
Certification	CE\FCC\ROHS					
Physical						
Measurement D x W x H(mm)	205*168*60					
package size D x W x H(mm)	265*196*110					
N.G(KG)	1.8kg					
G.N(KG)	2kg					
Type of Mechanical Protection	IP25					
Environment						
Humidity	0~90%RH (no condense)					
Altitude	0~3000m					
Operating Temperature	-20°C ~ +50°C					
Storage Temperature	-40°C ~ +75°C					
Atmospheric Pressure	70~106kPa					

Products photos

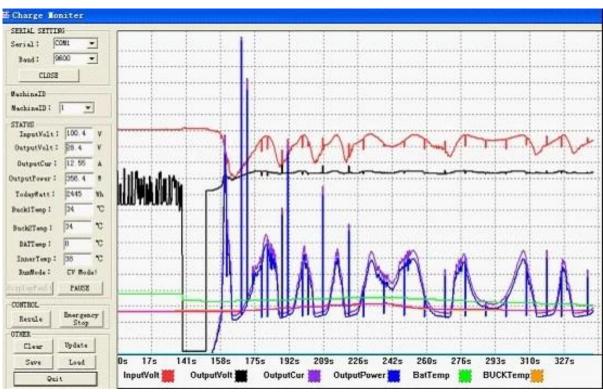




Upper software and test software display information and set parameters



Graphical: upper software



Graphical: testing ware