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.

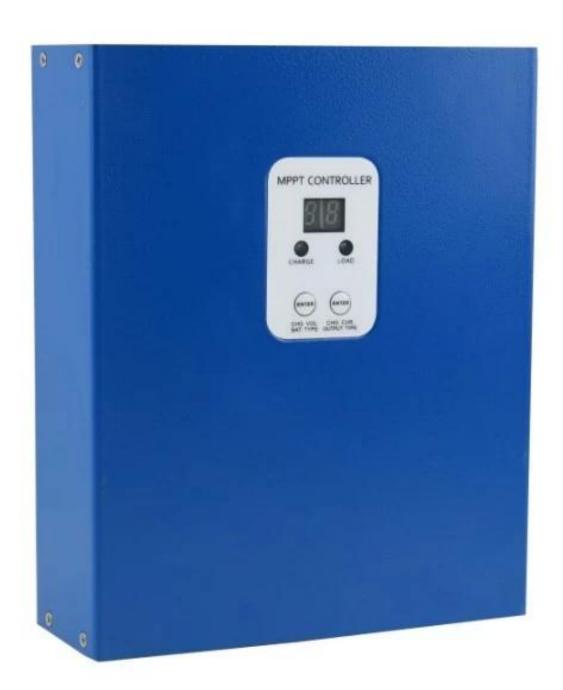
Features

- 1. MPPT charging mode, peak efficiency up to 99%, saving 30%~60% solar panel than traditional PWM controller.
- 2. DC12V/24V/48V battery system automatic recognition, users would like to use in different system conveniently.
- 3. DC12V/24V/48V system, maximum PV input voltage up to DC100V.
- 4. Charge type: three stages charge fast charge(MPPT), constant voltage,

floating charge, protected our battery, lead to a long use age.

- 5. Discharge type owns always on pattern and always off pattern, it also has PV voltage solar controlling switch pattern.
- 6. Clients can auto select any one in the 4 kinds of commonly used batteries, Sealed lead acid, vented, Gel, NiCd and custom other batteries.
- 7. Digital tube display controller battery voltage and charging current,upper computer display various parameters, such as model, PV input voltage, battery types, battery voltage, charging current, charging power, working condition etc.
- 8. RS232 communication, and that providing communication protocol, it's convenient for customer's integration management.
- 9. This controller could be paralleled infinitely.
- 10. CE, RoHS Certifications approved; cooperating with clients through the other certifications.
- 11. 2 years warranty; 3~10 years extended technical service.

Products photos









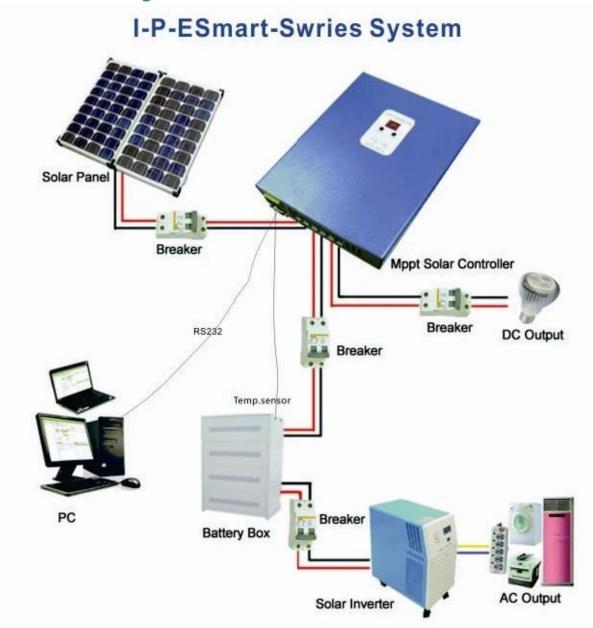
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MPPT solar controller modes		40A		
I-P-e-SMART-12V/24V/48V-series				
Charge mode	MPPT(maximum power point tracking)			
Charge method	Three stages: cor charge	e stages: constant current(MPPT),constant voltage,floating		
System type	DC12V/24V/48V	Automatic recognition		
	12V system	DC9V~DC15V		
	24V system	DC18V~DC30V		
	48V system	DC36V~DC60V		
Soft start time	12V/24V/48V system	≤3S		
Dynamic response recovery and range	12V/24V/48V system	500us		
IIVIPPI AMCIANCV	12V/24V/48V system	≥96.5%,≤99%		
INPUT CHARACTERISTICS				
MPPT working	12V system	DC14V~DC100V		
voltage and	24V system	DC30~DC100V		
Range	48V system	DC60~DC100V		
Low voltage input Protection point	12V system	DC14V		
	24V system	DC30V		
	48V system	DC60V		
Low voltage input Recovery point	12V system	DC18V		
	24V system	DC34V		
	48V system	DC65V		

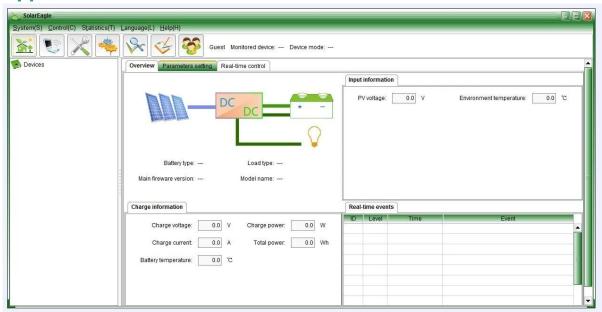
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			yes			
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	INOISE		≤4U@B			

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				

Connection diagram



Upper software



Company photo



Shanghai International Photovoltaic Power Generation Conference & Exhibition













