

Introduction

This is in MPPT (maximum Power point in the charge-discharge follow-up) smart solar controller, Function, as compared with the conventional PWM control, increases of 30% to 60% efficiency. It has Automatic recognition feature, it can charge the is also support features three stages Battery charge and discharge, of many types, such as RS232 communication, it is Our MPPT solar controller E-SMART series.

Characteristic

1. MPPT charging mode, 99 percent of peak efficiency up, than the traditional PWM to save the solar panels of 30% to 60% controller.
2. DC12V / 24V / 48V battery System automatic recognition, we want users to use a different system Convenient.
3. DC12V / 24V / 48V systems, the maximum PV input voltage up to DC100V.
4. charging type: 3 Stage, high-speed charging (MPPT), to charge a certain voltage

Floating charge, it has been protected Our battery, will lead to long-term use era.

5. discharge type owns The usual pattern is always off pattern on, it also has the PV voltage sun To control the switch pattern.
6. You can automatic client , And then select the battery to be used in ventilation general, sealed lead acid, any one of the four kinds of. Gel, NiCd and custom other battery.
7. digital tube display Controller battery voltage, charge current, a variety of host computer display Such models, PV input voltage, battery type, parameters such as battery voltage, Such as, the charging power, charging the current working state
8. RS232 communication, and Provides a communication protocol, it is, and it is convenient for the customer Integrated management.
9. I was able this controller Infinitely be connected in parallel.
10. CE, RoHS Directive Approved certification. Cooperation with the client through other Certification.
11. Warranty 2 years. 3-10 Year, it has expanded its technical services.

parameter

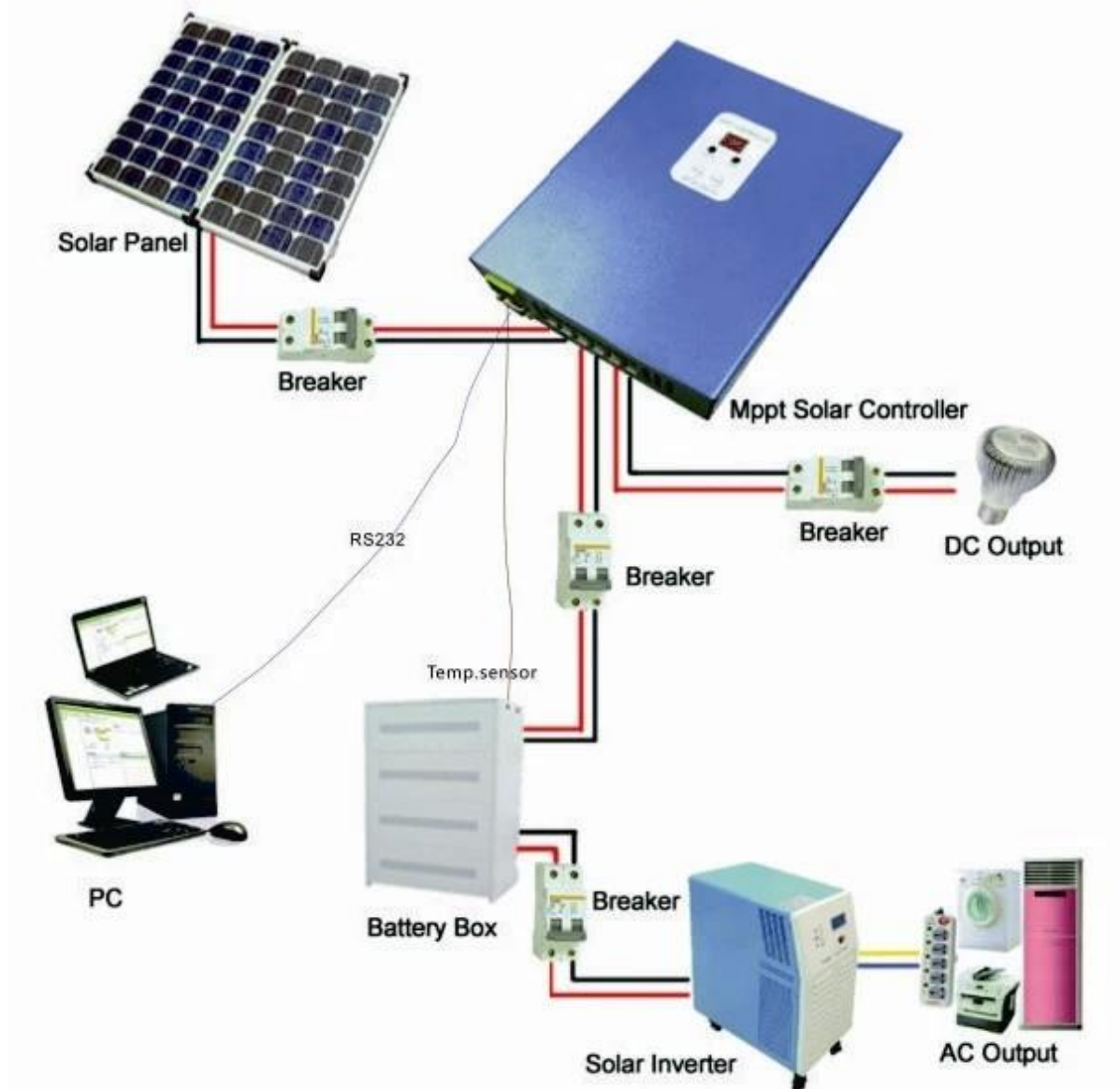
MPPT solar controller mode: I-P-E-SMART-12V / 24V / 48V Series	25A
Charge mode	MPPT (maximum power point tracking)
Charging method	Three stages: constant current (MPPT), constant voltage, floating charge
System type	DC12V / 24V / 48V Automatic recognition

System voltage	12V system	DC9V~DC15V
	24V system	DC18V~DC30V
	48V system	DC36V~DC60V
The soft-start time	12V / 24V / 48V system	≤3S
Dynamic response Recovery and range	12V / 24V / 48V system	500US
MPPT efficiency	12V / 24V / 48V system	≥96.5%, ≤99%
Input characteristic		
Work of MPPT Voltage and scope	12V system	DC14V~DC100V
	24V system	DC30~DC100V
	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
More input Voltage protection point	12V / 24V / 48V system	DC110V
More input Voltage recovery point	12V / 24V / 48V system	DC100V
Largest solar power	12V system (W)	355
	24V system (W)	710
	48V system (W)	1420
CHARGE CHRECTRESTICS		
Selectable battery type (There is a default type gel battery)	12V / 24V / 48V system	Sealed lead acid, Ventilation, gel, NiCd battery (Other types of The battery can also be defined))
Constant voltage	12V / 24V / 48V system	please confirm Charge the voltage corresponding to the shape of the battery-powered.
Floating charge Voltage	12V / 24V / 48V system	Please Please check the charging voltage depending on the form of a battery-powered.
Rated input current	12V / 24V / 48V system	25A
Current limit protection	12V / 24V / 48V system	30A
temperature factor	12V / 24V / 48V system	± 0.02% / °C
Temperature compensation	12V / 24V / 48V system	14.2V- (A maximum temperature of 25 °C) * 0.3
output Ripple (peak)	12V / 24V / 48V system	200mV of
Stability of the output voltage accuracy	12V / 24V / 48V system	≤ ± 1.5%
Output discharge characteristics		

Output voltage	Basic on the battery voltage	
Low voltage output Protection point	Default 10.5V; recovery 11V. Custom possible]	
Rated output current	30A	
Output control	Always on, always PV voltage control switch off	
Output control setting mode	Controller of the button or above computer	
display		
LED digital tube display	Battery voltage, charge current	
LED Light Display	Charge the indicator lamp, LOAD indicator light	
PC (communication port)	RS232	
protection		
Input low-voltage protection	Check the input characteristics	
Input overvoltage protection	Check the input characteristics	
Voltage power protection overcharge	Yes	
Low voltage output protection	Yes	
Rated output current protection	Yes	
Temperature protection	Yes	
Other parameters		
noise	≤40dB	
Heat dissipation method of heat component	It itself is cooled	fan cooling
Authentication	Import of the EU material, standard.	
Authentication	FCC \ ROHS \ CE	
physical		
Measurement D × width × H of (mm)	205 * 168 * 60	
Package size D × width × H of (mm)	265 * 196 * 110	
N.G (KG)	1.8 kg	
G.N (KG)	2 km	
Type of mechanical protection	IP25	
environment		
Humidity	0~90% RH (non-condensing)	
Advanced	0-3000 meters	
Operating temperature	-20 °C ~ + 50 °C	
Storage temperature	-40 °C ~ + 75 °C	
Atmospheric pressure	Done in 70~~106kPa	

Connection diagram

I-P-ESmart-Swries System



Product picture







contact information