

Introduction

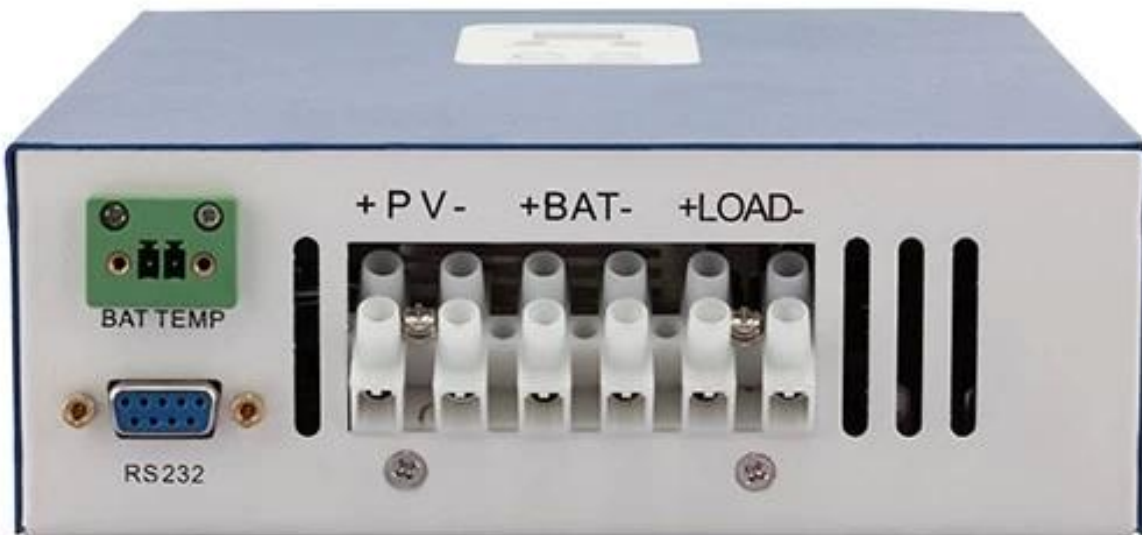
This is a MPPT (maximum Power Point Tracking) smart solar controller, with charging and discharging function, increasing 30%~60% efficiency than traditional PWM controller. It has automatic recognition function, three Stages charging function, also supports many kinds of battery charging and discharging, 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 FCC Certifications approved**; cooperating with clients through the other certifications.
11. **2 years warranty**; 3~10 years extended technical service.

Products photos





Parameters

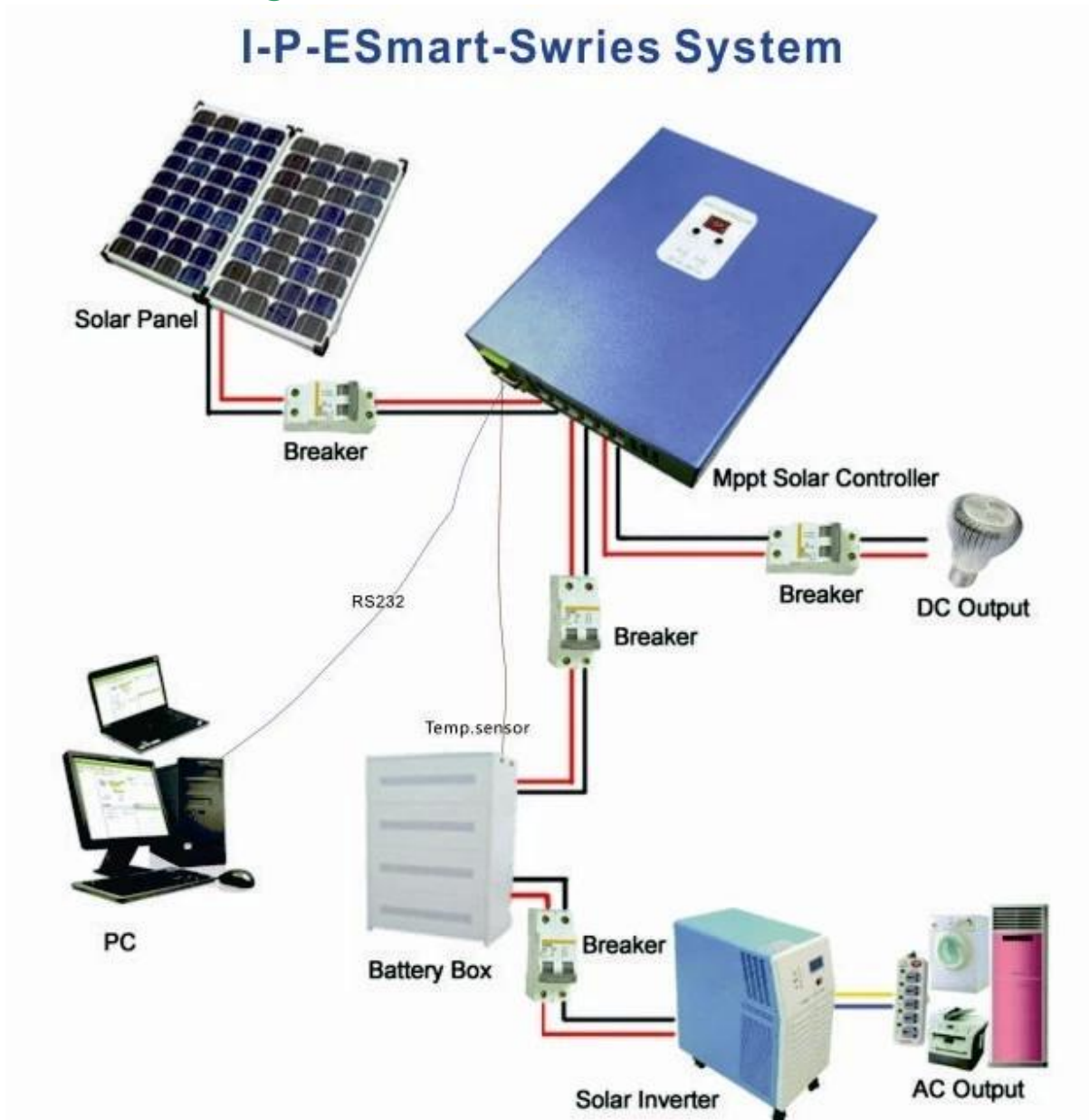
MPPT solar controller modes	15A	20A	25A	30A	40A
I-P-e-SMART-12V/24V/48V-series					
Charge mode	MPPT(maximum power point tracking)				

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	≤3S				
Dynamic response recovery time	12V/24V/48V system	500us				
MPPT efficiency	12V/24V/48V system	≥96.5%,≤99%				
INPUT CHARACTERISTICS						
MPPT working voltage range	12V system	DC14V~DC100V				
	24V system	DC30~DC100V				
	48V system	DC60~DC100V				
Low input voltage protection point	12V system	DC14V				
	24V system	DC30V				
	48V system	DC60V				
Low input voltage Recovery point	12V system	DC18V				
	24V system	DC34V				
	48V system	DC65V				
High input voltage protection point	12V/24V/48V system	DC110				
High input voltage recovery point	12V/24V/48V system	DC100V				
Maximum PV power	12V system (W)	213	284	355	426	568
	24V system (W)	426	568	710	852	1136
	48V system (W)	852	1136	1420	1704	2272
CHARGE CHRETESTICS						
Selectable Battery Types (Default Gel battery)	12V/24V/48V system	Sealed lead acid, Vented, Gel, NiCd battery (Other types of the batteries also can be defined)[]				
Constant Voltage Floating Charge Voltage	12V/24V/48V system	Please check the charge voltage according to the battery type form.				
Rated Input Current	12V/24V/48V system	15A	20A	25A	30A	40A
Current-limit Protection	12V/24V/48V system	20A	25A	30A	35A	45A
Temperature Factor	12V/24V/48V system	±0.02%/°C				
Temperature Compensation	12V/24V/48V system	14.2V-(The highest temperature-25°C)*0.3				
Output Ripples(peak)	12V/24V/48V system	200mV				
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%				
Output Discharge Characteristics						
Output voltage	Base on battery voltage					
Low voltage output Protection point	Default 10.5V; Recovery 11V; It can be adjustable.					
Rated output Current	30A					
The output control	On mode, Off mode, PV voltage control mode					
Output control set mode	Controller button or PC software					
Display						
LED digital tube display	Battery voltage, Charge current					
LED light display	Charging indicator light, LOAD indicator light					
PC[]communication port[]	RS232					
Protection						
Low input voltage protection	Check the input characteristics					
High input voltage protection	Check the input characteristics					
Charge overpower protection	yes					
Discharge low voltage protection	yes					
Discharge high 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
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

I-P-ESmart-Swries System



Upper software

SolarEagle

System(S) Control(C) Statistics(T) Language(L) Help(H)

Guest Monitored device: --- Device mode: ---

Overview Parameters setting Real-time control

Input information
 PV voltage: 0.0 V Environment temperature: 0.0 °C

Charge information
 Charge voltage: 0.0 V Charge power: 0.0 W
 Charge current: 0.0 A Total power: 0.0 Wh
 Battery temperature: 0.0 °C

Real-time events

ID	Level	Time	Event

50% OKS OKS

Charge Monitor

SERIAL SETTING
 Serial: COM1 Baud: 9600
 CLOSE

MachineID
 MachineID: 1

STATUS
 InputVolt: 100.4 V
 OutputVolt: 28.4 V
 OutputCur: 12.55 A
 OutputPower: 356.4 W
 TodayWatt: 2445 Wh
 Buck1Temp: 34 °C
 Buck2Temp: 34 °C
 BATTemp: 0 °C
 InnerTemp: 38 °C
 RunMode: CV Model

Display Fault: PAUSE

CONTROL
 Resume Emergency Stop

OTHER
 Clear Update
 Save Load
 Quit

0s 17s 141s 158s 175s 192s 209s 226s 242s 260s 276s 293s 310s 327s

InputVolt OutputVolt OutputCur OutputPower BatTemp BUCKTemp

Company photos



Get directions

My places



共有1条结果

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