Introduction

This is a <u>I-panda I-P-eSMART series MPPT</u> (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

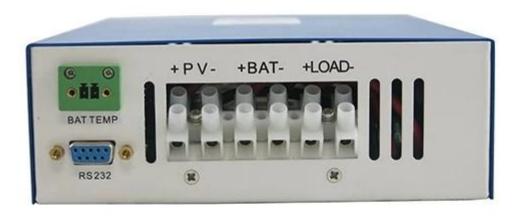
- 1. MPPT charging mode, Max. efficiency up to 99%, saving 30%~60% solar panel than traditional PWM controller.
- 2. DC12V/24V/48V battery system automatic recognition, users would like to use in different system conveniently.
- 3. DC12V/24V/48V system, maximum PV input voltage up to DC100V.
- 4. Charge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







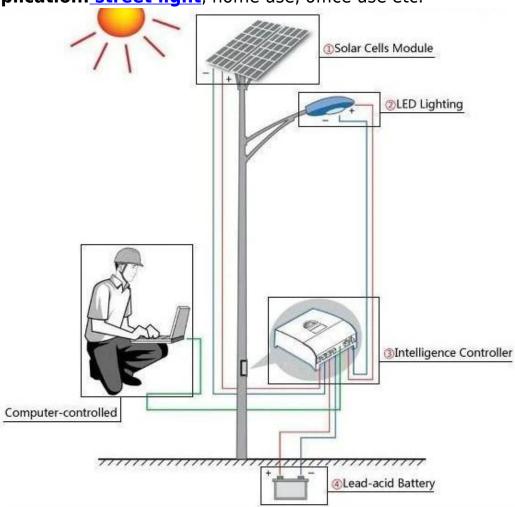
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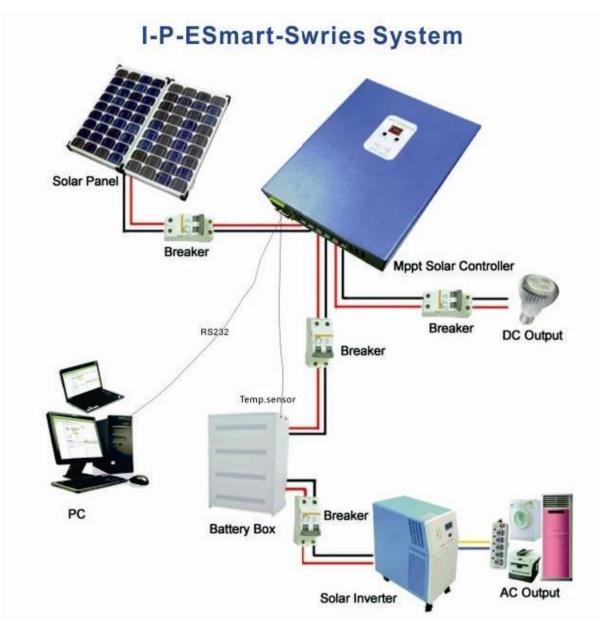
MPPT solar controlle I-P-e-SMART-12V/24\	_	15A
Charge mode	MPPT(maximum power point tracking)	
Charge method	Three stages: constant current(MPPT),constant voltage,floating charge	
System type	DC12V/24V/48V	Automatic recognition
System voltage	12V system	DC9V~DC15V
	24V system	DC18V~DC30V
	48V system	DC36V~DC60V
Soft start time	12V/24V/48V system	≤3S
Dynamic response recovery and range	12V/24V/48V system	500us
MPPT efficiency	12V/24V/48V system	≥96.5%,≤99%
INPUT CHARACTERIS	TICS	
MPPT working voltage and Range	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

Input over voltage recovery point 12V/24V/48V system (W) 216 24V system (W) 426 48V system (W) 426 48V system (W) 425 48V system (W) 426	I	:101/	DO10/
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According to the pattern with the patt	protection point	12V/24V/48V system	DC110V
Again	Input over voltage recovery point	12V/24V/48V system	DC100V
## 487 system (W) ## 522 CHARGE CHRECTRESTICS Selectable Battery Types (Default type is GEL battery) Types (Default type is GEL battery) Types (Constant Voltage 12V/24V/48V system Floating Charge Voltage 2V/24V/48V system Floating Charge Voltage 2V/24V/48V system Floating Charge Voltage 2V/24V/48V system Please check the charge voltage according to the battery type form. Rated Input Current 12V/24V/48V system 2V/24V/48V system Please check the charge voltage according to the battery type form. Rated Input Voltage 12V/24V/48V system 20A Temperature Compensation 2V/24V/48V system 2V/24V/48V syst		12V system (W)	216
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	Humidity		U~9U%KH (no condense)

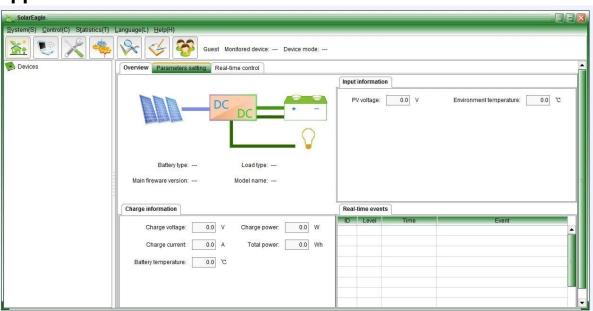
Altitude	0~3000m
Operating Temperature	-20℃ ~ +50℃
Storage Temperature	-40℃ ~ +75℃
Atmospheric Pressure	70~106kPa

Application: street light, home use, office use etc.





Upper software



Company photos





Shanghai International Photovoltaic Power Generation Conference & Exhibition













