Introduction

This is a **I-panda I-P-eSMART series** 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







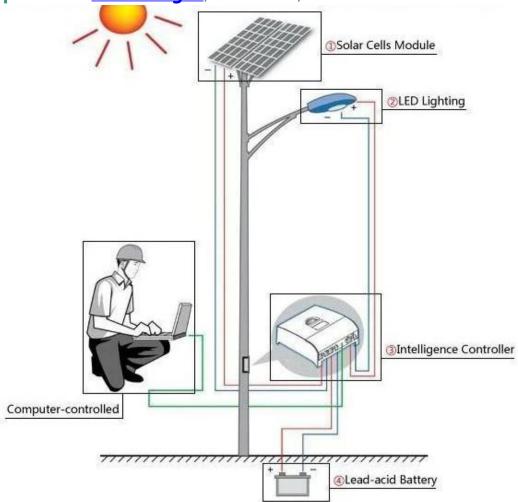


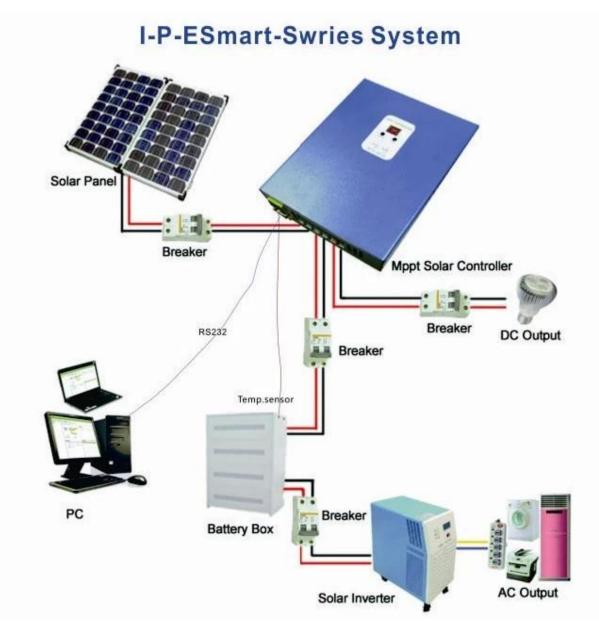
Parameters

MPPT solar controller I-P-e-SMART-12V/24V		30A
Charge mode	MPPT(maximum powe	er 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

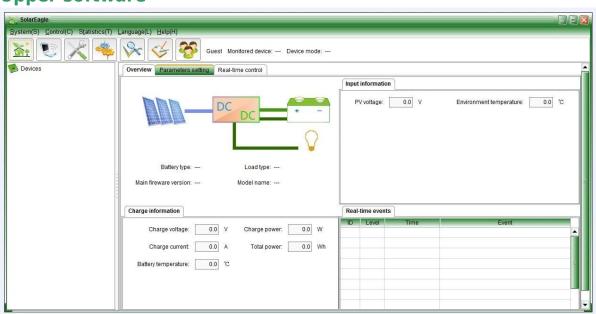
	12V system	DC18V
Low voltage input	24V system	DC34V
Recovery point	48V system	DC65V
Input over voltage		
protection point	12V/24V/48V system	DC110V
Input over voltage		
recovery point	12V/24V/48V system	DC100V
	12V system (W)	426
Maximum PV power	24V system (W)	852
'	48V system (W)	1704
CHARGE CHRECTRES	TICS	
Selectable Battery		
Types	12V/24V/48V system	Sealed lead acid, vented, Gel, NiCd battery
(Default type is GEL	12 V/2 + V/+O V 3 y 3 C 111	(Other types of the batteries also can be defined)
battery)		
Constant Voltage	12V/24V/48V system	Please check the charge voltage according to the
I	, , , , , , , , , , , , , , , , , , , ,	battery type form.
Floating Charge	12V/24V/48V system	Please check the charge voltage according to the battery
Voltage		type form.
Rated Input Current Current-limiting	12V/24V/48V system	JUA
Protection	12V/24V/48V system	35A
	12V/24V/48V system	+0 02%/℃
Temperature	5	
Compensation	12V/24V/48V system	14.2V-(The highest temperature-25°C)*0.3
	12V/24V/48V system	200mV
Output Voltage		
Stability	12V/24V/48V system	≤±1.5%
Precision	•	
Output Discharge Cha	aracteristics	
Output voltage		Base on battery voltage
Low voltage output		Default 10.5V; recovery 11V; custom available ;
Protection point		
Rated output Current		30A
		Always on, always off, PV voltage control switch
Output control set mode		Controller button or upper computer
Display		
LED digital tube display		Battery voltage, charge current
LED light display		Charging indicator light, LOAD indicator light
PC□communication port□		RS232
Protection		Charletha lange day della
Input Low Voltage Pro		Check the input characteristics
Input Overvoltage Pro		Check the input characteristics
Charge over voltage p	Jower Protection	yes
Low Voltage output Protection		yes
Rated output Current protection		yes
Temperature Protection		yes
Other Parameters	VII	; y CO
		≤40dB
Thermal heat-dissipating method		Itself cooling fan cooling
Components		Imported material, with EU standards.
• • • • • • • • • • • • • • • • • • • •		CE\FCC\ROHS
Physical		1
Measurement D x W >	κ H(mm)	205*168*60
•••••••••••••••••••••••••••••••••		265*196*110
•		1.8kg
G.N(KG)		2kg
Type of Mechanical Protection		IP25
Environment		
		0~90%RH (no condense)
Altitude		0~3000m
Operating Temperature		-20℃ ~ +50℃
		-40°C ~ +75°C
		70~106kPa

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





Upper software



Company photos



Shanghai International Photovoltaic Power Generation Conference & Exhibition













