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











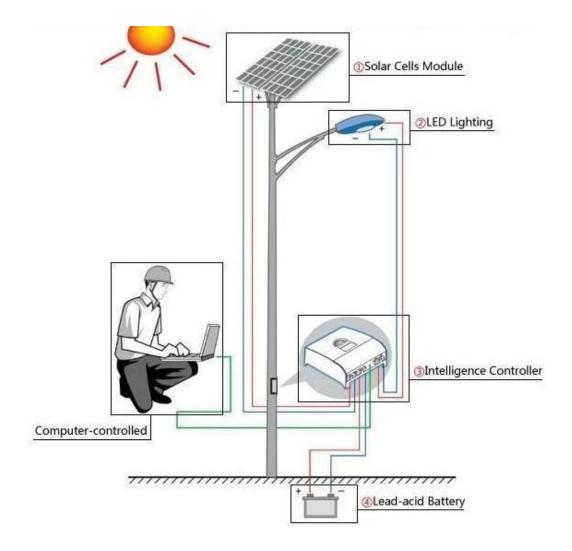
Parameters

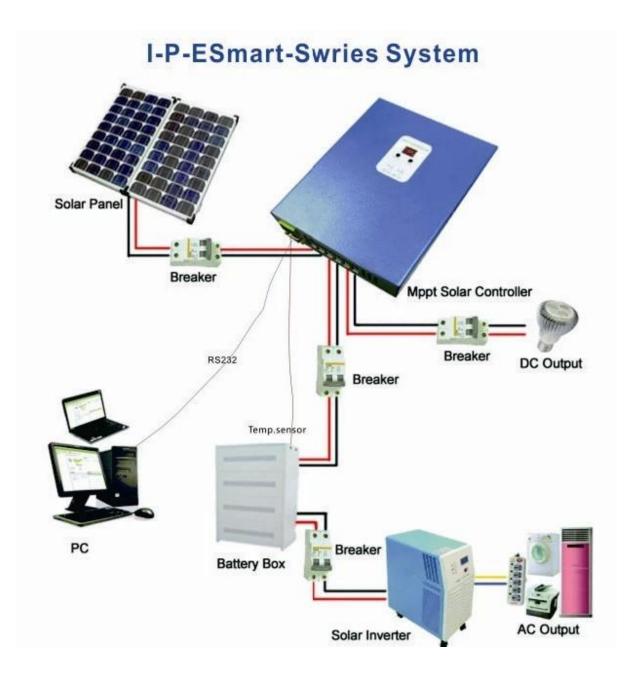
MPPT solar cont	roller modes[]
I-P-e-SMART-12\	J/24V/48V-series
Charge mode	MPPT(maximum power point tracking)

	Three stages, car	etent current/MDDT) constant voltage fleating		
Charge method	Three stages: constant current(MPPT),constant voltage,floating charge			
System type	DC12V/24V/48V	24V/48V Automatic recognition		
	12V system	DC9V~DC15V		
System voltage	24V system	DC18V~DC30V		
	48V system	DC36V~DC60V		
	12V/24V/48V			
Soft start time	system	≤35		
Dynamic				
response	12V/24V/48V	500us		
recovery and	system	Soous		
range				
MPPT efficiency	12V/24V/48V	≥96.5%,≤99%		
	system	290.5%,299%		
INPUT CHARACT	ERISTICS			
MPPT working	12V system	DC14V~DC100V		
voltage and	24V system	DC30~DC100V		
Range	48V system	DC60~DC100V		
Low voltage input	12V system	DC14V		
Protection point	24V system	DC30V		
	48V system	DC60V		
	12V system	DC18V		
Low voltage input Recovery point	24V system	DC34V		
	48V system	DC65V		
Input over	12V/24V/48V			
voltage	system	DC110V		
protection point	system			
Input over	12V/24V/48V			
voltage recovery	system	DC100V		
point	-			
Maximum PV	12V system (W)	426		
power	24V system (W)	852		
-	48V system (W)	1704		
CHARGE CHREC				
Selectable				
Battery Types				
(Default type is	12V/24V/48V	Sealed lead acid, vented, Gel, NiCd battery		
GEL	system	(Other types of the batteries also can be defined)		
battery)				
Constant Voltage	12V/24V/48V	Please check the charge voltage according to the		
	system	battery type form.		
Floating Charge	12V/24V/48V	Please check the charge voltage according to the		
Voltage Pated Input	system 12V/24V/48V	battery type form.		
Rated Input Current	system	30A		
Current-limiting	12V/24V/48V	35A		
Protection	system			
Temperature	12V/24V/48V	+0.02%/90		
Temperature Factor	12V/24V/48V system	±0.02%/°C		
Factor	system	±0.02%/°C 14.2V-(The highest temperature-25°C)*0.3		
Factor Temperature	system 12V/24V/48V			

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; custom available ;				
Rated output Current		30A				
The output control		Always on, always off, PV voltage control switch				
Output control set mode		Controller button or upper computer				
Display						
LED digital tube di	splay	Battery voltage, charge current				
LED light display		Charging indicator light, LOAD indicator light				
PC _c communicatio	n port[]	RS232				
Protection						
Input Low Voltage	Protection	Check the input characteristics				
Input Overvoltage	Protection	Check the input characteristics				
Charge over voltage power Protection		yes				
Low Voltage output Protection		yes				
Rated output Current protection		yes				
Temperature Prote	ection	yes				
Other Paramete	rs					
Noise		≤40dB				
Thermal heat-diss	ipating 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						
		0~90%RH (no condense)				
Altitude		0~3000m				
		-20°C ~ +50°C				
Storage Temperature		-40°C ~ +75°C				
Atmospheric Press		70~106kPa				

Application: street light, home, office etc.



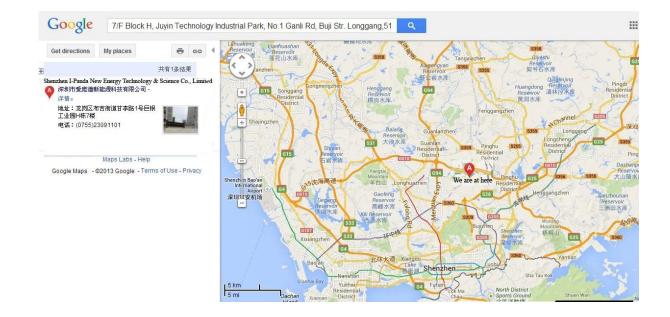


Upper software

SolarEagle				
System(S) Control(C) Statistics(T)	Language(L) Help(H)			
X	Guest Monitored device: Device mode:			
🕵 Devices	Overview Parameters setting Real-time control			
		Input information		
		PV voltage: 0.0 V Environment temperature: 0.0 °C		
	Battery type: Load type:			
	Main fireware version: Model name:			
	Charge information	Real-time events		
	Charge voltage: 0.0 V Charge power: 0.0 W	ID Level Time Event		
	Charge current: 0.0 A Total power: 0.0 Wh			
	Battery temperature: 0.0 °C			
		60% † 0Ks		

Company photos





2014 Shanghai Exhibition

