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











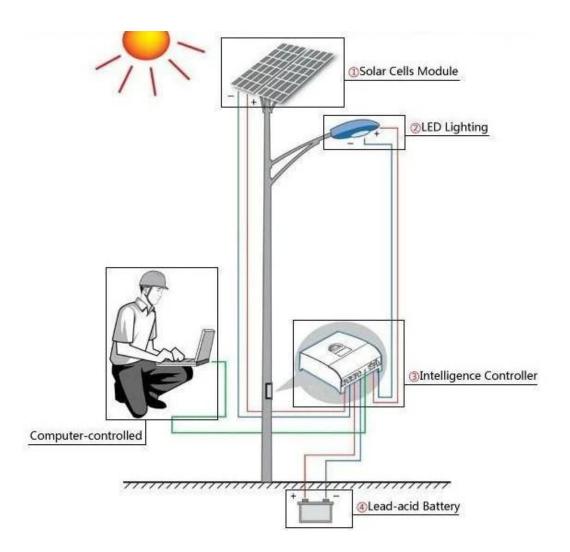
Parameters

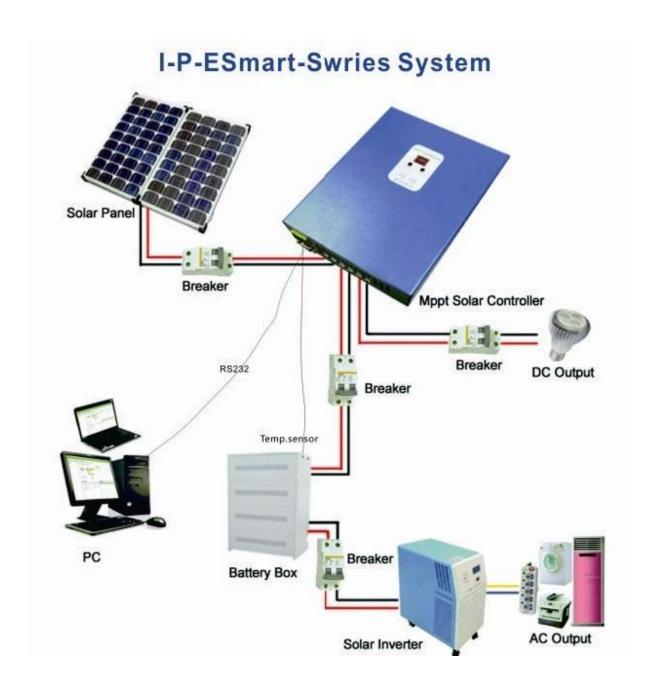
MPPT solar controller modes I-P-e-SMART-12V/24V/48V-series 30A				
Charge mode	MPPT(maximum power point tracking)			

	Three stages, cor	nstant current(MPPT),constant voltage,floating		
Charge method	charge			
System type	DC12V/24V/48V	Automatic recognition		
System type	12V system	DC9V~DC15V		
System voltage	24V system	DC18V~DC30V		
System voltage				
	48V system	DC36V~DC60V		
Soft start time	12V/24V/48V	≤ 3S		
D	system			
Dynamic	12) (/2 4) (/40) (
response	12V/24V/48V	500us		
recovery and	system			
range	10) ((0.4) ((4.0) (
MPPT efficiency	12V/24V/48V	≥96.5%,≤99%		
	system	<u> </u>		
INPUT CHARACT		Dot W. Dotoov		
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		
r rotection point	48V system	DC60V		
	12V system	DC18V		
Low voltage input	24V system	DC34V		
Recovery point	48V system	DC65V		
Input over				
voltage	12V/24V/48V	DC110V		
protection point	system			
Input over				
voltage recovery	12V/24V/48V	DC100V		
point	system	551007		
	12V system (W)	426		
Maximum PV	24V system (W)	852		
power	48V system (W)	1704		
CHARGE CHREC		1707		
CHARGE CHREC				
Selectable				
Battery Types	12V/24V/48V	Cooled lood soid wanted Col NiCd battom		
(Default type is	' '	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)		
GEL	system	(Other types of the batteries also can be defined)		
battery)				
	10) ((0,4) ((4,0) (
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	system	battery type form.		
Rated Input	12V/24V/48V	30A		
Current	system	30.1		
Current-limiting	12V/24V/48V	25.4		
Protection	system	35A		
	1			
Temperature	12V/24V/48V	±0.02%/°C		
Factor	system	1		
Temperature	12V/24V/48V	14.2V-(The highest temperature-25°C)*0.3		
Compensation	system	1		
Output	12V/24V/48V	200mV		
Ripples(peak)	system			

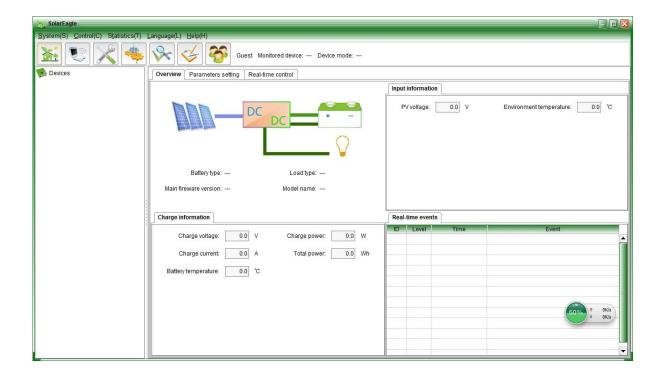
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%					
Output Discharge Characteristics							
Output voltage		Base on battery voltage					
Low voltage output Protection point		Default 10.5V; recovery 11V; custom available ;					
Rated output Current		30A					
The output control		Always on, always off, PV voltage control switch					
Output control se	t mode	Controller button or upper computer					
Display							
LED digital tube d	lisplay	Battery voltage, charge current					
LED light display		Charging indicator light, LOAD indicator light					
PC communication port ☐		RS232					
Protection							
Input Low Voltage Protection		Check the input characteristics					
Input Overvoltage Protection		Check the input characteristics					
Charge over voltage power		yes					
Protection							
Low Voltage output Protection		yes					
Rated output Current protection		yes					
Temperature Protection		yes					
Other Paramete	ers						
Noise		≤40dB					
Thermal heat-dissipating method		Itself cooling	fan cooling				
Components		Imported material, with EU standards.					
Certification		CE\FCC\ROHS					
Physical							
Measurement D x		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							
Humidity		0~90%RH (no condense)					
Altitude		0~3000m					
Operating Temperature		-20℃ ~ +50℃					
Storage Temperature		-40°C ~ +75°C					
Atmospheric Pressure		70~106kPa					

Application: street light, home, office etc.





Upper software



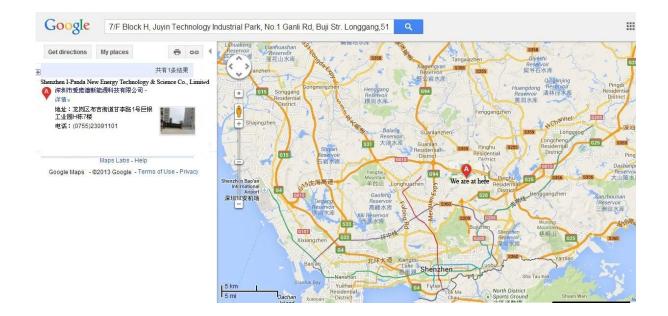
Company photos











2014 Shanghai Exhibition

