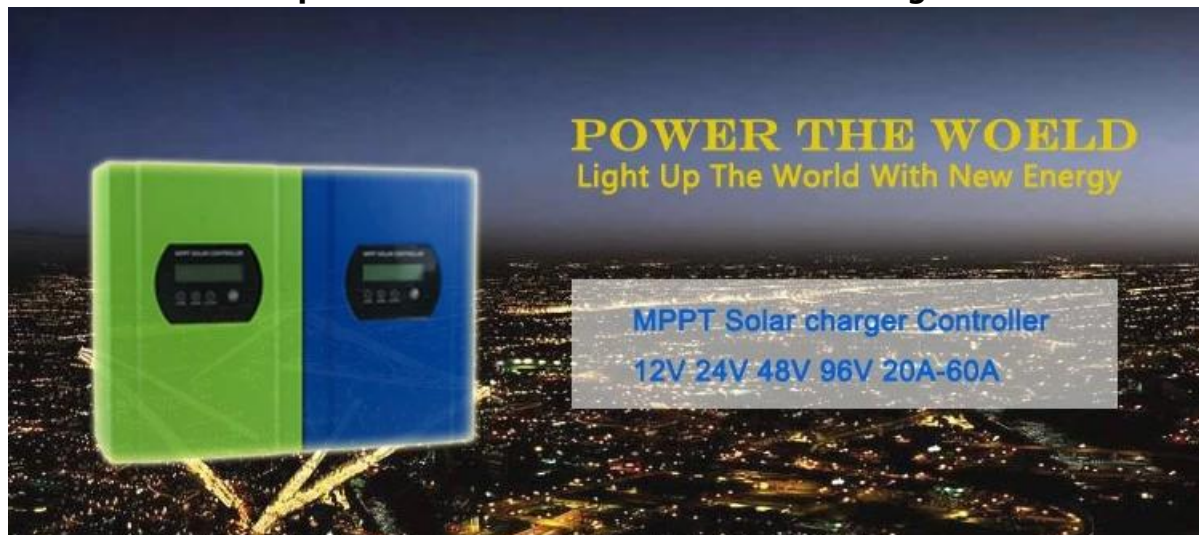


## PC software PV input 300V DC96V 30A MPPT solar charge controller



### Introduction:

This is a smart solar charge controller which has advanced MPPT technology. [Solar charge controller](#) is one of the important parts in the off-grid solar system. For having the advanced MPPT technology, the controller can trace the peak power with 99% conversion efficiency. MPPT microprocessor, inside the controller making 30% more charge current with significantly less power than tradition. In addition to this, easier installing and supporting to expand volume are other advantages. It can also store energy to different kinds of batteries. We provide battery choice (Vented Sealed Gel NiCd).

### Feature:

1. MPPT charge mode, conversion efficiency upto 99%, can save 30%~60% of the power than traditional controller.
2. With high efficient MPPT operation scheme and adopting TI28035 chip, make the Solar panels utilization rate upto 99%.
3. Intelligent design, the device can be upgraded online, customers enjoy the lifelong upgrade service.
4. Compliance with the 2002/95/EC environment protecting demand, doesn't include the Cadmium, hydride and fluoride
5. Adopting the well-known brand components, the devices can suffer the temperature not less than 105°C. The service life is designed to extend to 10 years in theory.
6. Charge mode: three stages (fast charge, constant charge, floating charge)
7. 12V/24V/48V system auto recognize for easy control.
8. Nominal maximum solar input is DC 150V
9. Connected Battery Type choosing: Sealed lead acid, vented, Gel, NiCd battery. Other types of the batteries can also be defined.
10. LCD and LEDs show all kinds of parameter like products model, PV input voltage, battery voltage, charge current, charge power, work condition, and also can add customers' company name and website.
11. Communication Port. RS232 communication can provide communication protocol, This make the unified

and integrated management more convenient to customers.

12. With providing a Microsoft by connecting with PC that can show the working state and all parameters in 7 languages.

13. Extensible LAN remote control.

14. Equipment integrity: controller+CD-ROM(microcomputer software) + communication wire+Anderson terminals;

15. CE, ROHS, FCC, PSE certifications approved. The device also can support to pass the other certifications.

16. 2 years warranty. And 3~10 years extended warranty service also can be provided.



Parameters:

Model: I-P-MSC-DC12V/24V/48V/96V-series		20A	30A
Charge Mode	Maximum Power Point Tracking		
Method	3 stages: fast charge(MPPT), constant voltage, floating charge		
System Type	DC12V/24V/48V/96V	Automatic recognition	
System Voltage	12V system	DC9V~DC15V	
	24V system	DC18V~DC30V	
	48V system	DC36V~DC60V	
	96V system	DC72V~DC120V	

Soft Start Time	12V/24V/48V/96V	≤10S	
Dynamic Response Recovery Time	12V/24V/48V/96V	500us	
Conversion Efficiency	12V/24V/48V/96V	≥96.5%, ≤99%	
PV Modules Utilization Rate	12V/24V/48V/96V	≥99%	
<b>Input Characteristics</b>			
MPPT Working Voltage and Range	12V system	DC18V~DC150V	
	24V system	DC34~DC150V	
	48V system	DC65~DC150V	
	96Vsystem	DC125~DC300V	
Low Voltage Input Protection Point	12V system	DC16V	
	24V system	DC30V	
	48V system	DC60V	
	96Vsystem	DC120V	
Low Voltage Input Recovery Point	12V system	DC22V	
	24V system	DC34V	
	48V system	DC65V	
	96Vsystem	DC125V	
Max DC Voltage	12V/24V/48V system	DC160V	
	96Vsystem	DC300V	
Input Overvoltage Protection Point	12V/24V/48V system	DC150	
	96Vsystem	DC300V	
Input Overvoltage Recovery Point	12V/24V/48V system	DC145V	
	96Vsystem	DC295V	
Max. PV Power	12V system	280W	450W
	24V system	560W	850W
	48V system	1120W	1700W
	96Vsystem	2240W	3400W
<b>Output Characteristics</b>			
Selectable Battery Types (Default type is GEL battery)	12V/24V/48V/96Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)	
Constant Voltage	12V/24V/48V/96Vsystem	Please check the charge voltage according to the battery type form.	
Floating Charge Voltage	12V system	14.6V	
	24V system	29.2V	
	48V system	58.4V	
	96V system	116.8V	
Rated Output Current	12V/24V/48V/96Vsystem	20A	30A
	12V/24V/48V/96Vsystem	25A	35A
Current-limiting Protection	12V/24V/48V/96Vsystem	±0.02%/°C	
Temperature Factor	12V/24V/48V/96Vsystem	14.2V-(The highest temperature-25°C)*0.3	
Temperature Compensation	12V/24V/48V/96Vsystem	200mV	
Output Ripples(peak)	12V/24V/48V/96Vsystem	≤±1.5%	
Output Voltage Stability Precision	12V/24V/48V/96Vsystem		

### Pictures:



## The Figures of the PC Firmware and Testing Software

SolarEagle

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

Guest Monitored device: COM1[01]\_1234567890123456 Device mode: Constant voltage charging I-Panda®

Devices

COM1[01]\_1234567890123456

Overview Parameters setting Real-time control

Input information

PV voltage: 105.1 V Environment temperature: 38.0 °C

Output information

Output voltage: 27.1 V Output power: 0.0 W

Output current: 0.0 A Total power: 3.9 kWh

Battery temperature: 0.0 °C

Battery type: Gel Model name: IPANDA-MPPT-60A

Main firmware version: 1.0

Real-time events

ID	Level	Time	Event
3001	Messa...	2011-11-05 15:20:...	Communication restore
3002	Messa...	2011-11-05 15:20:...	Communication lost
3001	Messa...	2011-11-05 15:20:...	Communication restore

Figure 1: PC Firmware

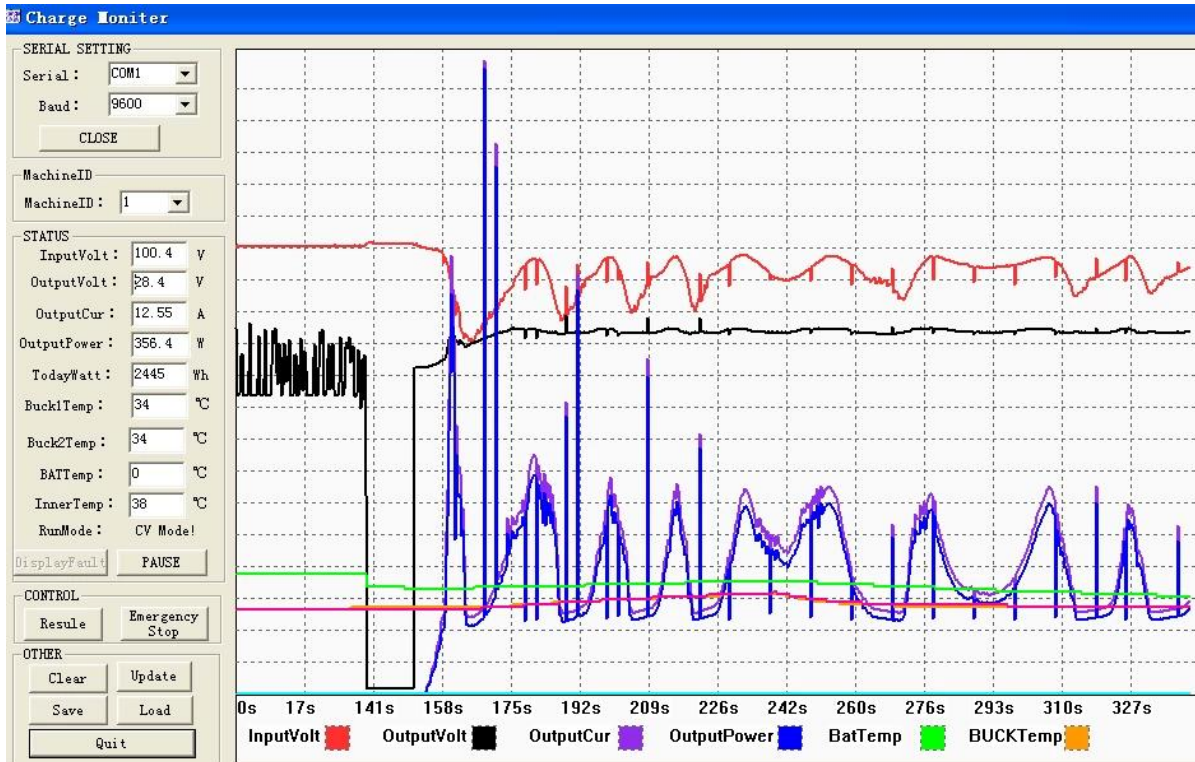


Figure: Testing Software

Wellcome to order I-Panda MPPT Solar Charge Controller Smart1 12V 24V 48V 20A~30A

# Certificate



# Company







**shipping way**





中外运敦豪