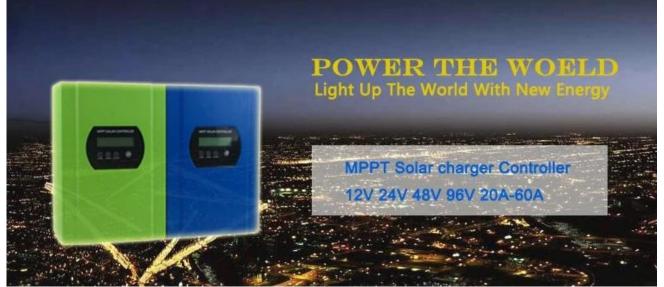
40a 12V 24V 48V system mppt solar panel tracker controlador



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.

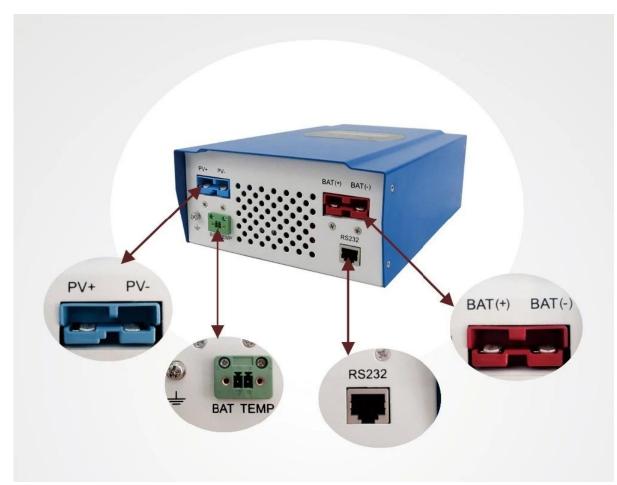
13. Extensible LAN remote control.

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_SMART1.	DC12\//2/\///8\/_					
Model:I-P-SMART1-DC12V/24V/48V- series		40A				
Charge Mode	Maximum Power Point Tracking					
Method	3 stages: fast charge(MPPT),constant voltage,floating charge					
System Type	DC12V	Automatic recognition				
System Voltage	12V system		DC9V~DC15V			
	24V system		DC18V~DC30V			
	48Vsystem		DC36V~DC60V			
Soft Start Time	12V/24V/	≤10S				
Dynamic Response Recovery Time	12V/24V/	500us				
Conversion Efficiency	12V/24V/	≥96.5%,≤99%				
PV Modules Utilization Rate	12V/24V/48Vsystem		≥99%			
	Input Ch	aracteristics				
MPPT Working Voltage and Range	12V :	system	DC18V~DC150V			
	24V system		DC34~DC150V			
	48V system		DC65~DC150V			
Low Voltage Input Protection Point	12V system		DC16V			
	24V system		DC30V			
	48V system		DC60V			
Low Voltage Input Recovery Point	12V system		DC22V			
	24V system		DC34V			
	48V :	DC65V				

Max DC Voltage	12V/24V/48V system	DC160V		
Input Overvoltage Protection Point	12V/24V/48V system	DC150V		
Input Overvoltage Recovery Point	12V/24V/48V system	DC145V		
	12V system	570W		
Max. PV Power	24V system	1130W		
	48V system	2270W		
	Output Characteristics			
Selectable Battery Types (Default type is GEL battery)	12V/24V/48Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)		
Constant Voltage	12V/24V/48V system	Please check the charge voltage		
Floating Charge Voltage	12V/24V/48V system	according to the battery type form.		
Over Charge Protection Voltage	12V system	14.6V		
	24V system	29.2V		
	48V system	58.4V		
Rated Output Current	12V/24V/48V system	40A		
Current-limiting Protection	12V/24V/48V system	44A		
Temperature Factor	12V/24V/48V system	±0.02%/°C		
Temperature Compensation	12V/24V/48V system	14.2V-(The highest temperature-25°C)*0.3		
Output Ripples(peak)	12V/24V/48V system	200mV		
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%		

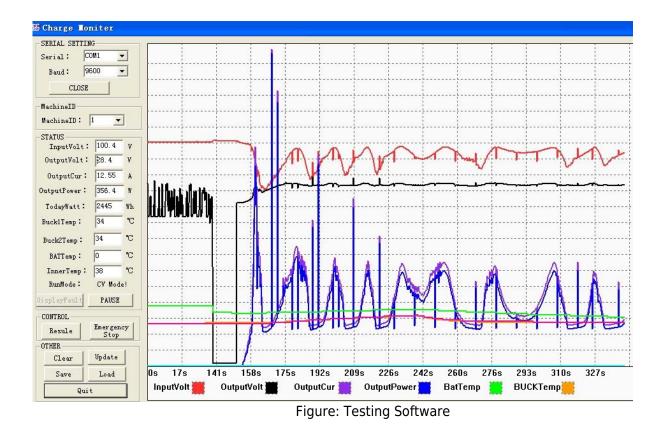
Pictures



The Figures of the PC Firmware and Testing Software

SolarEagle										
System(S) Control(C) Statistics(T)	Language(L) Help(H)		_	-	_					
🔀 💽 🔀 🌞	Guest Mon	itored device: COM1[01]_12345678901234	56 Dev	rice mode	Constant voltage ch	arging I-Par	ıda®			
🛸 Devices	Overview Parameters setting Real-time control									
COM1[01]_1234567890123456				Imput information PV voltage: 105.1 V Environment temperature: 38.0 *C						
	Battery type: Gel	Model name: IPANDA-MPPT-60A								
	Main fireware version: 1.0									
	Output information		Real	al-time events						
		7.1 V Output power: 0.0 W	ID	Level	Time	Event				
	Output voltage: 27.1 V		3001	Messa	2011-11-05 15:20:	Communication restore				
	Output current: 0.0 A	Total power: 3.9 kWh	3002	Messa	2011-11-05 15:20:	Communication lost				
			3001	Messa	2011-11-05 15:20:	Communication restore				
	Battery temperature: 0.0 °C									
							1			
			-							
			-							
							-			

Figure 1: PC Firmware



Welcome to order I-Panda MPPT Solar Charge Controller Smart1 48V 40A~60A

Certificate



Company

