Connection Diagram



Loading

Fuctions:

MPPT (Maximum Power Point Tracking) charge function
Auto Recognition function
<u>3-stage charge function</u>
Professional PC communication function

Feature:

1.MPPT charge mode, conversion efficiency upto 99%, can save 30% \sim 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%.

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.

Darameters

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.

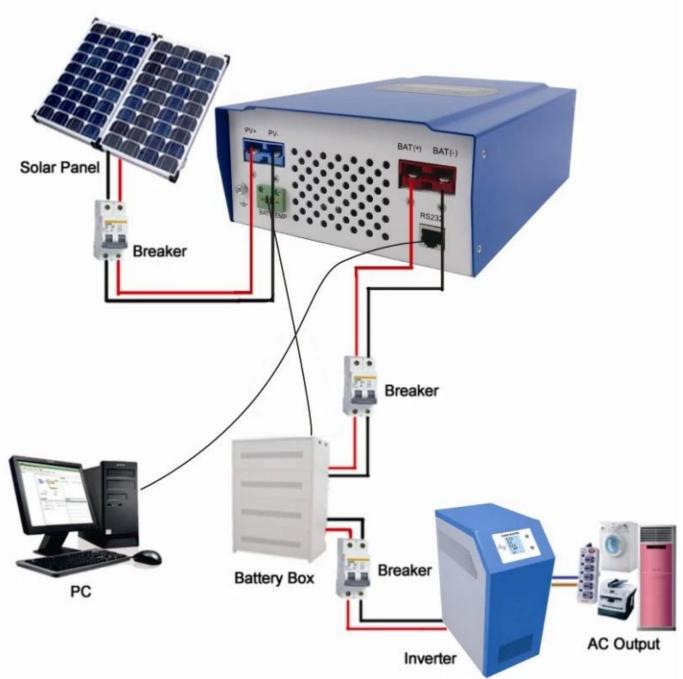
Parameters				
Model:I-P-MSC-DC12	2V/24V/48V-series	40A	50A	60A
Charge Mode	Maximum Power Po	int Tracking		
Method	3 stages: fast charge(MPPT),constant voltage,floating charge			
System Type	DC12V/24V/48V	8V Automatic recognition		
System Voltage	12V system	DC9V~DC15V		
	24V system	DC18V~DC30V		
	48Vsystem	DC36V~DC60V		
Soft Start Time	12V/24V/48Vsystem	ystem≤10S		
Dynamic Response Recovery Time	12V/24V/48Vsystem	500us		
Conversion Efficiency	12V/24V/48Vsystem	≥96.5%,≤99%		
PV Modules Utilization Rate	12V/24V/48Vsystem	≥99%		
Input Characteristic	S			
MPPT Working	12V system	DC18V~DC150		
Voltage and Range	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 system	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		
Max. PV Power	12V system	570W	700W	900W
	24V system	1130W	1400W	1700W
	48V system	2270W	2800W	3400W
Output Characterist	ics			

Selectable Battery Types (Default type is GEL battery)	12V/24V/48Vsyst			l, Gel, NiCd battery eries also can be		
Constant Voltage	12V/24V/48V system	Please check the charge voltage according				
Floating Charge Voltage	12V/24V/48V system	to the battery type form.				
	12V system	14.6V	14.6V			
Over Charge Protection Voltage	24V system	29.2V	29.2V			
	48V system	58.4V	58.4V			
Rated Output	12V/24V/48V	10.0	F 0 4	co.		
	system	40A	50A	60A		
Current-limiting	12V/24V/48V	1 1 1	EEA	C C A		
Protection	system	44A	55A	66A		
T	12V/24V/48V		±0.02%/°C 14.2V-(The highest temperature-25°C)*0.3			
Hemperature Factor	system	±0.02%/°C				
Temperature	12V/24V/48V	1401/17				
Compensation	system	14.2V-(1he				
Output	12V/24V/48V	200.01/				
1 ·	system	200mV	200mV			
Output Voltage	12V/24V/48V	. 1 50/				
	system	≤±1.5%				
Display	,			-		
		Input outpu	t narameter a	nd output power		
LCD display		etc	nput,output parameter and output power			
			(check the LCD display instruction)			
		3 LEDs indicates:Fault indicate light,charge				
LED display		indicate light, power source indicate light(check the LED instruction)				
Software Control through						
PC(communication port)		RS232 (matching) or LAN(optional)				
Protection	-	-				
Input Low Voltage Protection		Check the input characteristics				
Input Overvoltage Protection		Check the input characteristics				
Input Polarity Reversal Protection		ves				
Output Overvoltage Protection		Check the output characteristics				
		ves				
Output Polarity Reversal Protection			Recover after eliminating the Short-circuit			
Short-circuit Protection		fault, no problem for long term Short-circuit				
Temperature Protection		95°C				
			Above 85°C, decrease the output			
Temperature protection			power,decrease 3A per degree.			
Other Parameters		power,acer				
Noise		≤40dB				
		Forced air cooling, fan speed rate regulated				
			by temperature, when inner temperature is			
Thermal methods		too low,fan ran slowly or stop;when				
			controller stop working, fan also stop ran.			
Components		World brand raw materials. Compliance with EU standards.All rated temperature of				
			electrolytic capacitors not less than 105°C			
Smell			No peculiar smell and and toxic substances.			
			Meet the 2002/95/EC,no cadmium hydride			
Environment Protection			and fluoride			
			ana nuoriae			

Physical			
Measurement DxWxH(mm)	270*185*90		
N.G(kg)	3		
G.N(kg)	3.6		
Color	Blue/Green (optional)		
Safety	CE,RoHS, PSE,FCC		
EMC	EN61000		
Type of Mechanical Protection	IP21		
Environment			
Humidity	0~90%RH (no condense)		
Altitude	0~3000m		
Operating Temperature	-20°C ~ +40°C		
Storage Temperature	-40°C ~ +75°C		
Atmospheric Pressure	70~106kPa		

The specification is only for reference. Subject to change without prior notice.We provide OEM and ODM service.The 36V/72V/96V model also can be custom made for you.

Communication way



Applications

- 1. Industrial, commercial, household off-grid solar power system
- 2. moveable off-grid solar power system
- 3. Communication base stations
- 4. Energy knowledge popularization

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