Connection Diagram



Fuctions:

MPPT (Maximum Power Point Tracking) charge function
Auto Recognition function
3)3-stage charge function
4)Professional PC communication function

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.

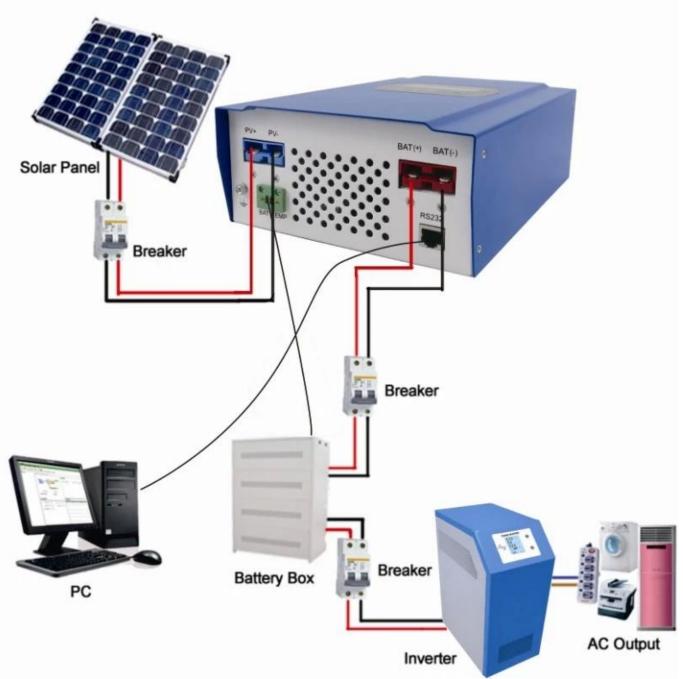
16. 2 years warranty. And 3~10 years extended warranty service also can be provided.

Model:I-P-MSC-DC12V/24V/48V-series		60A
Charge Mode	Maximum Power Poin	nt Tracking
Method	3 stages: fast charge(MPPT),constant voltage,floating charge
System Type	DC12V/24V/48V	Automatic recognition
	12V system	DC9V~DC15V
System Voltage	24V system	DC18V~DC30V
	48Vsystem	DC36V~DC60V
Soft Start Time	12V/24V/48Vsystem	≤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%
nput Characteristics		
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 system	DC65V
Max DC Voltage	12V/24V/48V system	DC160V
nput Overvoltage Protection Point	12V/24V/48V system	DC150V
nput Overvoltage Recovery Point	12V/24V/48V system	DC145V
Max. PV Power	12V system	700W
	24V system	1400W
	48V system	2800W
Dutput Characteristics		
Selectable Battery Types (Default type is GEL pattery)	12V/24V/48Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)
Constant Voltage Floating Charge Voltage	12V/24V/48V system 12V/24V/48V system	Please check the charge voltage according to the battery type form.
	12V system	14.6V
Over Charge Protection Voltage	24V system	29.2V
	48V system	58.4V
Rated Output Current	12V/24V/48V system	50A
Current-limiting Protection	12V/24V/48V system	55A
Temperature Factor	12V/24V/48V system	
Temperature Compensation	12V/24V/48V system	
	101//041//401/	200mV
Output Ripples(peak) Output Voltage Stability Precision	12V/24V/48V system	200110

LCD display	Input, output parameter and output power etc (check the LCD display instruction)
	3 LEDs indicates:Fault indicate light,charge indicate light,power source
LED display	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	yes
Output Overvoltage Protection	Check the output characteristics
Output Polarity Reversal Protection	yes
Short-circuit Protection	Recover after eliminating the Short-circuit fault,no problem for long term Short-circuit
Temperature Protection	95℃
Temperature protection	Above 85°C, decrease the output power, decrease 3A per degree.
Other Parameters	
Noise	≤40dB
Thermal methods	Forced air cooling,fan speed rate regulated by temperature,when inner temperature is 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℃
Smell	No peculiar smell and and toxic substances.
Environment Protection	Meet the 2002/95/EC,no cadmium hydride and fluoride
Physical	
Measurement D x W x H(mm)	270*185*90
N.G(kg)	3.6
G.N(kg)	4.2
Color	Blue/Green (optional)
Safety	CE, RoHS
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

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