Connection Diagram



Loading

Fuctions:

1)MPPT (Maximum Power Point Tracking) charge function

2)Auto Recognition function

3)3-stage charge function

4)Professional PC communication function

Feature:

1.MPPT charge mode, conversion efficiency up to 99%, can save 30%~60% of the power than traditional controller.

2. With high efficient MPPT operation scheme and adopting TI28035chip, make the Solar panels utilization rate up to 99%.

3.Intelligent design, the device can be upgraded online, customersenjoy the lifelong upgrade service.

4.Compliance with the 2002/95/EC environment protecting demand, doesn'tinclude 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 (fastcharge,constant charge,floating charge)

7.12V/24V/48V/96V system autorecognize for easy control.

8. 12V/24V/48V system maximumsolar input is DC 150V ,96V system maximum solar input is DC 300V ;

9.Connected Battery Type choosing:Sealed lead acid, vented, Gel, NiCd battery. Other types of the batteries canalso be defined.

10. LCD and LEDs show all kinds ofparameter like products model, PV input voltage,battery voltage,chargecurrent,charge power,work condition,and also can add customers' company name andwebsite.

11. Communication Port.RS232communication 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 7languages.

13. Extensible LAN remote control.

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

15.CE,ROHS,FCC,PSE certificationsapproved. 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

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Model: Smart1 12V/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		
	48Vsystem	DC36V~DC60V		
	96Vsystem	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%		
Input Characteristics				
	12V system	DC18V~DC150V		
MPPT Working Voltage and Range	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		

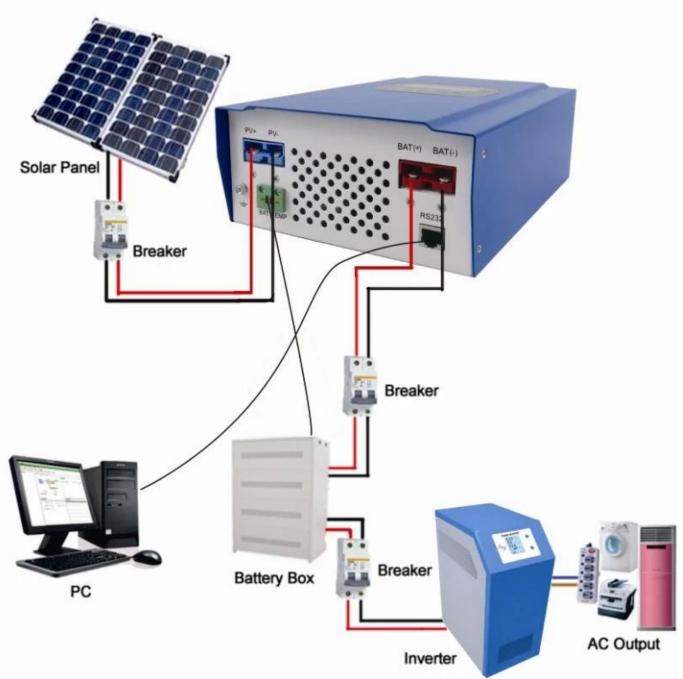
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Noise ≤40dB	Other Parameters		· · · · · · · · · · · · · · · · · · ·		
	Noise		≤40dB		

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°C		
Smell	No peculiar smell and and toxic substances.		
Environment Protection	Meet the 2002/95/EC,no cadmium hydride and fluoride		
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 <u>specification</u> is only forreference. Subject to change without prior notice.

We provide \underline{OEM} and \underline{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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