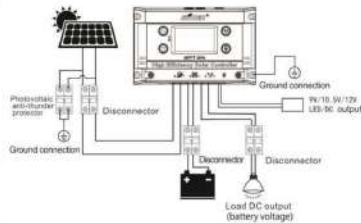




MPPT



<< Solar charging system connection diagram >>



ST-H Family ST-H1210/ST-H1220/ST-H1230

FEATURES

1. Max output voltage of solar panel : 50V
2. Regulatory mechanism of temperature compensation
Auto regulate the charging voltage according to the temperature sensors
3. Built-in 2 USB 5V 2.1A charging interfaces
4. Auto identify system voltage of 12V / 24V
5. LED luminance can be adjusted

Technical Parameter

ST-H-series

Function	Model	ST-H1210	ST-H1220	ST-H1230
To adapt to the battery voltage		12V/24V Adaptive(Battery <16V:12V System Battery>18V:24V System)		
Rating charger voltage		50V		
Rating charger current		10A	20A	30A
Recommended power of solar panel		12V Open-loop Voltage 18-24V Standard Solar Panel 150W*1 24V Open-loop Voltage 36-48V Standard Solar Panel 300W*1		
Recommended number of solar panels		1 Pieces in parallel	2 Pieces in parallel	3 Pieces in parallel
Charging way		Intelligent Charging MPPT Maximum Power Point tracking		
Constant voltage charging voltage		Default: 14.2V (24V battery *2) parameters can be set in menu /Quick switch available		
Constant current charging current		10A	20A	30A
Under-voltage protection voltage		Default:10.5V(24V Battery*2)parameters can be set and adjusted in menu		
Over pressure recovery voltage		Default:12.5V(24V Battery*2) parameters can be set and adjusted in menu		
Battery charge voltage summer and winter temperature compensation		16 mV/°C @ 12 V	32 mV/°C @ 24 V	
Load overload automatic recovery time		30S		
DC output		5V2.1A		
Double USB output		9V/10.5V/12V	1A	
Stand-by power consumption		<20mA		
Operating temperature range		-20°C - 55°C		



>>> My family SG-1210A/SG-1210B



FEATURES

1. 5 LED indicators show battery capacity precisely
2. built-in controller 12v/7A
3. 3XDC output ports 12V/3A
4. 2XUSB port 5V/1A
5. Multifunction radio(FM, MP3, SD card)
6. Large arc shaped handle, easy to carry
7. Perfect protection function, high reliability
8. Meet power demand: of house lighting/travel, camping etc



Technical Parameter

SG-series

Model	SG-1210A	SG-1210B
Solar panel	Polycrystalline solar module 18V-10W(with 6 meters wire)	
Lead-acid battery	12V 7AH (built in)	/
lithium iron phosphate battery	/	12V 9AH (built in)
USB socket	5V/2A	5V/2A
Speaker	2W4(built in)	2W4(built in)
LED socket	12V 1A(max)*3	12V 1A(max)*3
FM range	88 - 108MHZ	88 - 108MHZ
LED lighting source	12V 3W	12V 3W