



## FEATURES

1. Three battery charging settings have been preset (B01 Lead acid battery, B02 Lithium ion battery, B03 Lithium iron phosphate battery), according to the types of batteries, with power-off memory function, which can remember the settings when users power on next time.
2. Large-screen LCD display, charging and discharging parameters can be fully customized.
3. Adopt complete three phase PWM charge management (Constant current mode, constant voltage mode, floating charge mode).
4. Built-in overcurrent/short circuit/open circuit and battery reverse protection.
5. Double MOS tube anti-reverse circuit protection, which prevents battery current from being caused power loss transferring to the solar cell at night.

ST-S Family: ST-S1210/ST-S1220/ST-S1230

## Technical Parameter

## ST-S-series

Model	ST-S1210	ST-S1220	ST-S1230
System voltage	12V/24V		
Maximum input voltage	<50V		
Rated current	10A	20A	30A
External 12V battery recommended Solar panel specifications	100W/18V	200W/18V	300W/18V
External 24V battery recommended Solar panel specifications	100W/36V	200W/36V	300W/36V
External battery	12V 100-150Ah	12V 100-150Ah	12V 100-150Ah
	24V 100-150Ah	24V 100-150Ah	24V 100-150Ah
Battery Type	B01=Lead Acid Battery 12V		
	B02=Lithium-ion battery 3 series 3.7V=11.1V		
	B03=Lithium iron phosphate battery 4 series 3.2V=12.8V		
Charging voltage	*14.3V(B01)	*12.6V(B02)	*14.6V(B03)
Low-voltage cut-off voltage	*10.7V(B01)	*9V(B02)	*10V(B03)
Low power recovery voltage	*12.6V(B01)	*10.5V(B02)	*12V(B03)
USB output	5V/2A		
Standby current	<10mA		
Working temperature	-35~+60°C		