

ECCO Charger / PWM Charger

The 20A PWM Solar controller is for off-grid solar systems and control the charging and discharging of the battery. The intelligent charging process has been optimized for long battery life and improved system performance.

Major functions

- Automatic identification system voltage, 12 volts/24 volts
- Humanized LCD displaying and double button operation of man-machine interface
- High efficiency intelligent PWM 3stage charging
- The load control mode can be selected; the timer function can be reset for street light at night
- Reliable over voltage protection: short circuit protection, over load protection, overcharge protection, over-discharge protection
- Accurate temperature compensation, correcting the charging and discharging voltage automatically, improving the battery lifetime
- Roundly reverse connected protection
- Solar panels, battery, solar charge controller positive poles are all connected together, adopting negative MOSFET in series control circuit



Ordering Information

Product Code	ECCO20A	ECCO30A
Max. Charge Current	20A	30A
Max. Discharge Current	20A	20A
System Voltage	12V / 24A	12V / 24A
PV Max. Input Voltage	55V	55V
Self - Consumption	≤12mA	≤12mA
LVD	11V ADJ. 9V...12V; x2 / 24V	
LVR	12,6V ADJ. 11V...15V; x2 / 24V	
Boost Voltage	14,4V; x2 / 24 Battery voltage less than 12,6V auto boost 2hours	
Battery Over Voltage Disconnection Voltage	16,5V; x2 / 24V	
Reverse Connection Protection	Yes	
Load Over Current Protection	Yes, each 30s auto restart again	
Charge Type	PWM	
Temperature Compensation	-24mV / °C for 12V system; x2 / 24V	
Working Temperature	-20°C --- +50°C	
Terminal Scale	14 ---6 AWG 10mm ²	
Waterproof Grade	IP32	
Size	168 x 92 x 34mm	
Weight	320g	

*Please under rated power using under high temperature environment.