

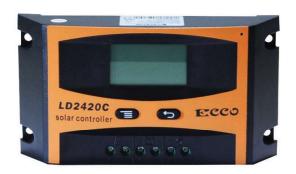


## **ECCO Charger / PWM Charger**

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. 9V12V; x2 / 24V	
LVR	12,6V ADJ. 11V15V; 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 <sup>2</sup>	
Waterproof Grade	IP32	
Size	168 x 92 x 34mm	
Weight	320g	
*Please under rated power using under high temperature environment.		