

Technical Data

Type	ECO MPPT 5A	ECO MPPT 10A	ECO MPPT 20A
System voltage	12 V / 24 V Automatic Recognition		
Max. charge/load current	5 A	10 A	20 A
Float charge	13.8V / 27.6V (77°F / 25°C)		
Main charge	14.4V / 28.8V (77°F / 25°C), 0.5h (daily)		
Boost charge	14.4V / 28.8V (77°F / 25°C), 2h Activation : Battery voltage <12.3V / 24.6V		
Equalization Charge	14.8V / 29.6V (77°F / 25°C), 2h Activation : Battery voltage <12.1V / 24.2V		
Deep discharge protection			
Voltage dependent	11.0/22.0 V		
Reconnect level	12.8/25.6 V		
Overvoltage protection	15.5 / 31.0 V		
Max. Panel Voltage	30V (12V System); 50V (24V System)		
Max. Panel Power	96W (12V System); 500W (24V System)		
Temperature compensation	-50mV / K @ 24V		
Idle self-consumption	< 10 mA		
Ambient operating temperature	-40 to 122°F		
Max. elevation	4000m above the sea level		
Battery type	Lead acid (GEL, AGM, flooded), Li-ion*		
Wire cross section	14 AWG (2.5 mm ²)		
Weight	330 g (approx.)		
Dimensions (W x H x D)	146 X 90 X 27.5 mm		
Type of protection	IP68		

Note:

*Li-ion Battery Charging Chemistry is done only with LFP Battery with 12.8V