

# MPPT SOLAR CONTROLLER

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## Features:

- Advanced MPPT technology & ultra-fast tracking speed, with tracking efficiency no less than 99.5%,
- Maximum Dc/DC transfer efficiency is as high as 98.5%, full load efficiency is up to 97%.
- Advanced MppT control algorithm will minimize the MPP loss rate and loss time.
- The accuracy of the recognition and tracking at the highest point of multiple-peaks MPP.
- The wider range of MPP operating voltage.
- Autocontrol system to limit the charging power & current go over the rated value.
- Support the lead-acid and lithium batteries.
- It has a settable battery temperature compensation function.
- Real-time energy recording and statistical function.
- Automatic Over-temperature power reduction function.
- It has the protection function of photovoltaic panel input reverse connection and battery reverse connection.



## TECHNICAL SPECIFICATIONS

Model	EURO- MPPT - 40A				EURO- MPPT - 60A				EURO- MPPT - 80A				EURO- MPPT -100A			
System Voltage	12V	24V	36V	48V Adaptive	12V	24V	36V	48V Adaptive	12V	24V	36V	48V Adaptive	12V	24V	36V	48V Adaptive
PV Input voltage	17V-150V	29V-150V	41V-150V	53V-150V	17V-150V	29V-150V	41V-150V	53V-150V	17V-150V	29V-150V	41V-150V	53V-150V	17V-150V	29V-150V	41V-150V	53V-150V
Rated Charging Power	540 W	1080 W	1620 W	2160 W	800 W	1600 W	2400 W	3200 W	1080 W	2160 W	3240 W	4320 W	1300 W	2600 W	3900 W	5200 W
Size	350 x 255 x 160 mm				350 x 255 x 160 mm				425 x 311 x 173 mm				425 x 311 x 173 mm			
Max Charge Current	40 A				60 A				80 A				100 A			
Max PV Voltage	150 A				150 A				150 A				150 A			
Maximum open circuit voltage of photovoltaic modules	150 V (under the lowest temperature condition) 138 V (under 25°C condition)															
Maximum power point operating voltage range	(Battery voltage +5V) ~ 138 V (at 25°C)															
Tracking Efficiency	≥ 99.5%				≥ 99.5%				≥ 99.5%				≥ 99.5%			
Maximum Conversion Efficiency	97.5%				97.5%				97.5%				97.5%			
Temperature compensation coefficient	-3m V / °C / 2V				-3m V / °C / 2V				-3m V / °C / 2V				-3m V / °C / 2V			
Static Loss	700mA / 12V ; 300mA/ 24V ; 150mA / 48V ; 100mA/ 96 V															
DC load output voltage	Can be turned on in 12 / 24 V mode															
DC load rated output voltage	40 A															
DC load output voltage	Normally open normally closed mode / time control mode /light control mode															
Protective function	PV input reverse connection protection, battery input reverse connection protection , battery overcharge protection, battery undervoltage protection, battery over temperature protection, machine over temperature protection															
Cooling method	Wind Cooling															
Way of communication	RS485															
LCD Backlight time	Default 60S, backlight mode can be set															
Working environment temperature range	-20°C~+50°C															
Net Weight	2.66 Kg				2.67 Kg				4.56 Kg				5.21 Kg			
Gross Weight	3.22 Kg				3.23 Kg				5.23 Kg				5.95 Kg			

