



# EG4 MPPT 100-48HV

## MPPT CHARGER

The EG4 MPPT charger controller extracts the maximum available power from your PV modules and safely converts it to a lower voltage to charge your battery bank. EG4's MPPT technology ensures that every available watt of power from your PV modules is extracted and stored in your batteries by constantly monitoring the modules' voltage and current output. Optimize your new or existing solar power system by integrating this unit.

**100A Max  
Charging Current**

**3-Year  
Warranty**

**48Vdc Nominal  
Battery Voltage**

### Wide PV Array MPPT Voltage Range

With a max PV array open-circuit voltage of 500Vdc, this unit can process up to 5500W of PV input when combining 2 strings. Higher voltage means smaller wire size without the need for a combiner box.

### User-Defined Settings

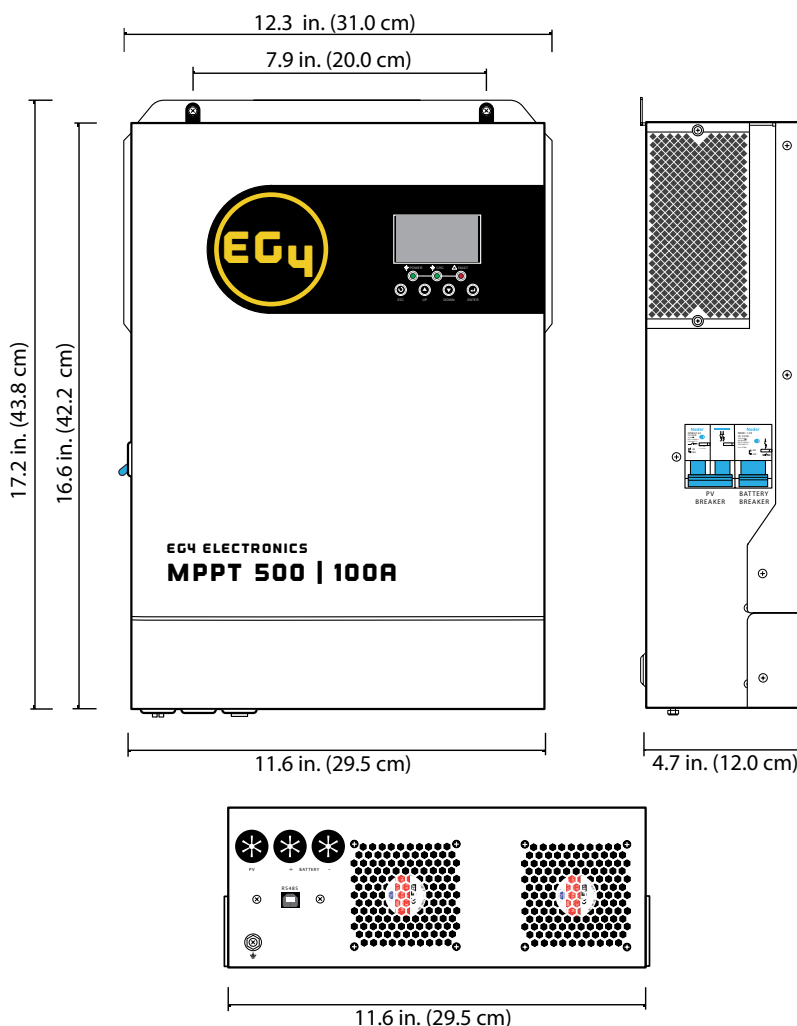
Adjustable bulk, float, and charge current for maximum system compatibility.

### Built-In Battery and PV Input Breakers

This adds a higher level of safety and protection to the unit. Code compliance can also be achieved with these features. For local codes, check with your AHJ.

### BMS Communication

The MPPT charger communicates with EG4 batteries when operating with non-EG4 compatible inverters via its RS485 BMS port.





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Charger Specifications	
Battery Voltage	48Vdc nominal
Charge Current	5-100A (default 80A)
Bulk Charging Voltage	48-62Vdc (default 56Vdc)
Float Charging Voltage	48Vdc to bulk charging voltage (default 56Vdc)
Overcharge Protection	63Vdc
Max Efficiency	94%
Self-Consumption	<25W
Solar Specifications	
Max PV Array Open Circuit Voltage	500Vdc
PV Array MPPT Operating Voltage Range	120-450Vdc
Number of Trackers	1
Max Solar Current Draw	18A
Max PV String Current	22A
Max Usable PV Array Power	5500W
Environmental Specifications	
Operating Temperature Range	14°F to 131°F (-10°C to 55°C)
Storage Temperature	5°F to 140°F (-15°C to 60°C)
Humidity	5% to 95% relative humidity (non-condensing)
IP Rating	IP21
Operating Altitude	0~4921 ft. (0~1500 m)
Physical Specifications	
Dimensions H×W×D	17.2×11.6×4.7 in. (43.8×29.5×12.0 cm)
Net Weight	17.8 lbs. (8.1 kg)

