



40 Amp MPPT Solar Controller



INCREASES BATTERY LIFE BY PREVENTING OVERCHARGING



Maximum Power Point Tracking solar charge controller

The Go Power! 40-Amp MPPT solar controller brings maximum efficiency in a smaller package. The most compact controller in its class, it maintains the life of the battery by protecting it from overcharging. When your battery has reached a 100% state of charge, the Controller prevents overcharging by limiting the current flowing into the batteries from your solar array.

The GP-MPPT-40 optimizes solar charging capacity in mobile systems in all sun and tilt conditions while allowing the use simpler series wiring configurations up to 150V (Voc @ STC).

Model #: GP-MPPT-40

- Stack up to two MPPT-40 controllers for twice the array capacity
- Charges 12/24V Batteries with higher voltage arrays
- Accepts Series wired PV inputs up to 150 Voc (STC)
- Easier to wire arrays in series configuration
- Heavy-duty terminals for low resistance connections
- Maximizes energy yield in any insolation/array tilt conditions
- Innovative current-mode control reacts faster to changes in sun conditions than competition
- Stackable; combine two controllers for even more flexibility
- Increases charge output on flat mounted arrays compared to PWM controllers
- Up to 98% power conversion efficiency
- **5-year warranty**

SPECIFICATIONS

System Voltage	12/24V (auto-recognition)
Temperature Compensation	-24mV / K (12V systems), - 48mV/K (24V Systems)
Controller Operating Battery Voltage Range (min. - max.) [V]	9V – 15.5V (12V system), 18 – 31V (24V system)
Max Charge Current	40A
Over-Voltage Protection	15.5/31.0V
Max Panel Input Voltage	150 Voc
Max PV Power Input	600W@12V / 1200W @24V
Min PV Voltage Input	16V (12V Systems) / 33V (24V Systems)
Idle Self-Consumption	0.7W (60mA typical at 12.0V, 30mA typical at 24.0V)
Grounding	Negative Grounding
Ambient Temperature	-40° to +60° C
Battery Type	Lead Acid (SEALED, AGM, Flooded)
Max Wire Cross Section	AWG 2
Dimensions	169 x 173 x 57 mm
Weight	1.1 kg
Type of Protection	IP20
Warranty	5 Years

BATTERY CHARGING PROFILE

	SEALED/GEL	AGM	FLOODED
Bulk Charge Voltage Set Point	14.1V	14.4V	14.4V
Absorption Charge Voltage (30 min / day)	14.1V	14.4V	14.4V
Max. Power Boost Charge Voltage: Automatic (2h if V < 12.3V)	14.1V	14.4V	14.4V
Max. Power Boost Charge Voltage: Manual (2h if activated)	14.1V	14.4V	14.4V
Float Charge Voltage	13.7V	13.7V	13.7V
Equalize Charge Voltage (2h / 28 days or after V < 12.1V)	Disabled	Disabled	14.9V

AUTHORIZED DEALER: