



20 AMP MPPT SOLAR CONTROLLER



INCREASES BATTERY LIFE BY PREVENTING OVERCHARGING



GP-MPPT-85/20

SPECIFICATIONS	
Nominal System Voltage	12V/24V
Max Solar Array Current	20A
Battery Voltage Range	9V – 15.5V (12V system), 18 – 31V (24V system)
Max. Solar panel input voltage	85V
Operating Consumption	< 10 mA
Temp. Compensation	-25mV / K (12V systems), -50mV/K (24V Systems)
Operating Temperature	-40 to 60°C
Humidity	99% N.C.
Dimensions (H x W x D):	3.5in (88.5mm) x 4.4in (112mm) x 1.6in (41.4mm)
Weight	1.38 lbs (360g)
Warranty	5 years
Protection	Battery Reverse Polarity, Solar Array Reverse Polarity, Over Temperature, PV Short Circuit, Battery Short Circuit, Over Current

Specifications may be subject to change. Product may not be exactly as shown. Specifications subject to local environmental conditions.

MAXIMUM EFFICIENCY SOLAR CHARGE CONTROLLER BUILT FOR HARSH INDUSTRIAL ENVIRONMENTS

The GP-MPPT-85/20 ensures maximum performance and yield from all types of PV systems year-round and in any environment.

The GP-MPPT-85/20 is an industrial Maximum Power Point Tracking (MPPT) charge controller featuring a robust, fully-sealed (IP68) housing that resists vibration as well as dust-, insect- and water ingress.

FEATURES:

- IP68 rated waterproof protection with MC4 solar connections and Delphi battery connections
- Up to 98% power conversion efficiency
- 3-stage I/U curve sweep algorithm increases battery lifespan
- Anodized aluminum extrusion with built-in heat dissipation
- Fully encapsulated design prevents damage from water, corrosion, insects and/or dust
- Works with 12 or 24V battery systems (automatic battery voltage detection)
- Compatible with 60-cell modules
- Converts excess array voltage into additional charging current
- Allows up to 50% oversized array power for adding additional capacity in low-insolation months
- 5 year warranty

Battery Types Supported	Lead Acid
Battery Voltage Charge Range	9.0 to 14.8 VDC in 12V systems 18.0 to 29.6 VDC in 24V systems
Bulk/Absorption Voltage (AGM)	14.4/28.8V (25°C, 77°F), 30min per day or 2hr if battery voltage < 12.3/24.6V
Float Voltage	13.8/27.6V (25°C, 77°F)
Battery overvoltage Protection Level	15.5/31.0 VDC