

MPPTsolid 230/100

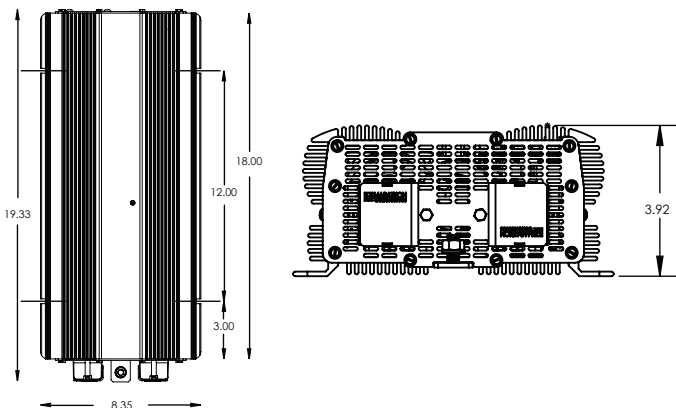
MPPT Solar Charge Controller



More Power, Less Wire.

- Full current up to +55°C
- Works with 24V, 48V, 60V or 72 V batteries
- Low EMI emissions
- Highest power rating in its class

For superior efficiency and reliability



The MPPTsolid 230/100 provides up to 100A of charge current into 24V, 48V, 60V or 72V batteries from solar arrays up to 230 Voc all in one unit! This reduces system costs dramatically by eliminating the need for multiple controllers and making wiring less complex and costly.

MPPTsolid 230/100 was built to withstand rugged, remote environments while providing maximum efficiency charging to critical battery banks.

A PC communications port and software allow viewing and programming MPPTsolid 230/100 parameters as well as data logging.

Rugged Design

- Anodized, marine-grade aluminum housing with built-in heat dissipation
- Stainless steel wire terminals with 1-inch conduit connections

High Power

- Suitable for PV charging systems up to 7.5 kW at 72 VDC
- Up to 97% power conversion efficiency

Flexible

- Works in 24V, 48V, 60V or 72V charging applications (Specify battery voltage when ordering)
- * Adjustable charge set points via PC interface

Application Examples

- Telecom
- Military/Government
- Hospitals
- Off-Grid Homes/Cabins
- Backup Systems
- Village Electrification



Technical Data

Type	MPPTsolid 230/100
PV Open Circuit Voltage (Voc) Max	230V
PV Maximum Power Voltage (Vmp)	> Battery Voltage x 1.25 (ie. Vmp > 30V for 24V battery)
Input Amps (max)	100A
Input Protection	No Internal Fuse, Recommend 100A in-line input circuit breaker
Battery Voltage Range (must be equal to or less than PV voltage)	24 – 72V (specify battery voltage when ordering)
Output Current (Max)	100A
Standby Power Consumption	3W Max
Efficiency	97%
Charge Type	3 Stage, Bulk, Absorption, Float
Supported Battery Chemistries	Lead Acid (PbA)
Output Voltage Range	User Programmable 24-90V
Battery Temperature Compensation	User Programmable (mV/ °C)
MPPT	Tracks within 5% of max power point
Status Display	RS232- PC Interface
Output Protection	No Internal Output Fuse Recommend 100A in-line output circuit breaker
Data Logging	PC Data logging software included
Operating Temperature Range	-25° to +55°C with derating over +50°C
Certifications / Compliance	UL1741, CSA107.1 and CE
Ruggedization Options	Call for options
Conduit Connections	4x1 inch conduit connections
Dimensions (WxHxD)	208 x 89 x 434 mm
Clearance	1 inch (25 mm) all around
Material	Anodized Marine Grade Aluminum
Finish	Orange Anodized
Fastenings	All 18-8 Stainless Steel
Weight	17.0 lb / 7.7 kg
Connections	Four contact terminals, AWG 1/0 Maximum gage
Warranty	3 years