

# MPPTsolid 230/100

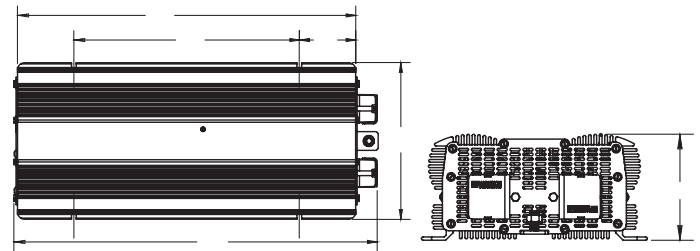
High-Power MPPT Solar Charge Controller



phocos



## Technical Drawing



## Product Introduction

The MPPTsolid charge controller provides up to 100A of charging power into battery banks between 24 to 72V from solar panel arrays up to 230V open circuit. Our patented MPPT (Maximum Power Point Tracking) algorithm maximizes the power output of the solar array.

MPPTsolid allows the use of a higher voltage PV arrays than the batteries being charged as it is designed to step down the array voltage, allowing greater flexibility in the choice of array of wiring configurations. A PC communication port and software allow viewing and programming the MPPTsolid's parameters as well as data logging. A battery temperature sensor (supplied) enables programmable temperature compensation of charging voltage.

## Product Features

- Patented MPPT design (Maximum Power Point Tracking)
- Adjustable 3-stage charging algorithm
- 230V open circuit input capable
- Up to 100 A output current
- 97% efficiency at 100A out
- Optional digital display
- Input and output current sensor
- Low noise, EMC tested
- Battery temperature sensor included
- 24-72VDC nominal battery voltages (programmable through PC interface)
- UL1741/CSA107/CE/IEC 62109 approved

## Optional Accessories

- **PC interface available**

## Technical Data

Type	MPPTsolid 230/100
System voltage	24/28/36/48/60/72V
Max solar input voltage	230Voc
Max. input current	100A
Output protection	No internal output fuse, 100A in-line input circuit breaker recommended
Output voltage range	User programmable 24-90 V via RS232 PC-interface
Battery voltage range	24 – 72 V (specify battery voltage when ordering)
Charge type	3 stage; float, main, boost
PV maximum power voltage (Vmp)	> Battery voltage x 1.25 (ie. Vmp > 30 V for 24 V battery)
Power conversion efficiency	Up to 97%
Idle self-consumption	3W max.
Grounding	No common grounding. Connect earth to corresponding terminal
Operating temperature range	-13 to +131deg F (-25 to +55deg C) with derating over +104deg F (+40deg C)
Max. altitude	4,000 m above sea level
Battery type	Lead acid(GEL, AGM, flooded)
Battery temperature compensation	User programmable (mV/K)
Status display	Green LED (operation), RS232- PC interface
Data logging	Via RS232 PC-interface: PC data logging software included
Certifications/compliance	UL1741, CSA107.1 and CE
Conduit connections	4x1 inch conduit connections
Connections	Four contact terminals, AWG 1/0 maximum gage, other possible options
Material	Anodized marine grade aluminum
Dimensions (WxHxD)	208 x 89x 434 mm
Weight	20.4 lb (9.25 kg)
Type protection	IP20
Warranty	3 years