

MPPTsolid 230/100 (100 A)

MPPT Solar Charge Controller



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

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

MPPTsolid allows you to use a higher voltage PV array than the batteries you are charging as it is designed to step down

the array voltage, allowing greater flexibility in the choice of array for your system. 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.

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Type	MPPTsolid 230/100
System voltage	24/48 V
Max solar input voltage	230 Voc
Max. input current	100 A
Input protection	No internal fuse, 100 A in-line input circuit breaker recommended
Max. output current	100 A
Output protection	No internal output fuse, 100 A 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
Min. MPP voltage (Vmp)	> Battery voltage x 1.25 (ie. Vmp > 30 V for 24 V battery)
Power conversion efficiency	Up to 97%
Idle self-consumption	3 W max.
Grounding	No common grounding. Connect earth to corresponding terminal
Operating temperature range	-25° to +55°C with derating > 40 °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
Ruggedization options	Call for options
Conduit connections	4x1 inch (4x25 mm)
Connections	Four contact terminals, AWG 1/0 maximum gage, other possible options
Material	Anodized marine grade aluminum
Finish	Orange anodized
Fastenings	All 18-8 stainless steel
Dimensions (WxHxD)	208 x 89 x 434 mm
Clearance	1 inch (25 mm) all around
Weight	20.4 lb / 9.25 kg
Type of protection	IP20