



Schneider Electric Xantrex™ XW MPPT 80 600 Solar Charge Controller

The Xantrex XW MPPT 80 600 is a photovoltaic (PV) Charge Controller that tracks the maximum power point of a PV array to deliver the maximum available current for charging batteries. When charging, the XW MPPT 80 600 regulates the battery voltage and output current based on the amount of energy available from the PV array and present state-of-charge of the battery. The XW MPPT 80 600 accepts PV array voltages up to 600V; significantly reducing system wiring gauges and conduit costs.

Features

- High DC voltage input allows increased installation flexibility and allows long wiring distances from the PV array to the controller
- Can be used with 24 and 48V battery systems
- Maximum Power Point Tracking MPPT delivers maximum available power from PV array to battery bank
- Configurable for positive, negative, and ungrounded PV systems
- Integrated PV ground fault protection
- Full output power of 4800W up to 45°C without de-rating
- Configurable Auxiliary output
- Input over-voltage and under-voltage protection, output over current protection, and back-feed (reverse current) protection
- Over-temperature protection and power derating when ambient temperatures are high
- Battery Temperature Sensor included – automatically provides temperature-compensated battery charging
- Xanbus™ – enabled network communications protocol allows settings and activity to be communicated to other Xanbus-enabled devices, such as the XW Hybrid Inverter/Charger, the XW System Control Panel (SCP), XW Automatic generator start (XW AGS) and other XW Solar Charge Controllers
- Can be installed in a stand-alone mode with XW System Control Panel (XW SCP) (sold separately)
- Five-Year Warranty

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Electrical specifications

Nominal battery voltage	24 and 48 VDC (Default is 48 V)
Maximum PV array voltage (operating)	195 to 550 VDC
Maximum PV array open circuit voltage	600 VDC
Array short-circuit current	28 ADC @ STC
Maximum and minimum wire size in conduit	#6 AWG to #14 AWG (13.5 to 2.5 mm ²)
Total stand-by power consumption	< 1W
Charger regulation method:	Three stage (bulk, absorption, float) Two stage (bulk, absorption)

General specifications

Enclosure type	Indoor, ventilated, aluminum sheet metal chassis with 7/8" and 1" (22.22 mm and 27.76 mm) knockouts and aluminum heat sink
Weight	13.5 kg (29.8 lb)
Dimensions (H x W x D)	76 x 22 x 22 cm (30 x 8.625 x 8.625")
Shipping weight	17.4 kg (38.3 lb)
Shipping dimensions (H x W x D)	87 x 33 x 27 cm (34.3" x 13" x 10.6")
Operating temperature range	-20 to +65°C (-4 to 149°F), power derating above 45°C
Storage temperature	-40 to +85°C (-40 to 185°F)
Altitude limit (operating)	Sea level to 6,500 feet (approximately 2000 m)
Mounting	Vertical wall mount
Standard warranty	Five Years
Part number	865-1032

Regulatory approvals

Certified to UL 1741: 2nd Ed and to CSA 107.1-01

Specifications are subject to change without notice.