MPPT PV Optimization 600 Vdc Solar Charge Controllers

6 kW MPPT 100 600 (Part Number 865-1034) 4.8 kW MPPT 80 600 (Part Number 865-1032)



The MPPT 80 and MPPT 100 600 Vdc Solar Charge Controllers optimize the power from PV arrays for DC coupled solar and storage installations, with easy, flexible installation.

Optimum System Performance

- High power, 600 Vdc MPPT PV optimization and battery charge control
- Flexibility for oversized PV array power ratings up to 8.5 kW with the MPPT 100 or 6.8 kW with the MPPT 80
- High efficiency from PV to battery to grid, ideal for the selfconsumption of solar energy
- Black start batteries from solar, providing maximum energy resilience for longer duration grid outages
- Harvest more energy with shade tolerant fast sweep MPPT algorithm

Flexible

- Flexible string sizing with a wide MPPT and PV operating voltage range
- Compatible with XW Pro and SW series hybrid inverters for a complete grid tied or off grid solar and storage solution

Easy to Install

- 2 string installations and smaller wire sizing with 600 Vdc PV arrays, allowing faster, lower cost installations
- No need for a combiner box with DC breakers or fuses
- Easy to install PV disconnect and NEC 2017 compliant rapid shutdown transmitter with the MPPT Disconnect RS accessory, UL1741 PVRSS certified

Compatible with Insight Energy Management

- Setup and configuration
- Remote monitoring & control with advanced data security
- · Web and mobile app
- Multi-site management for installers



Technical Specifications

MPPT 100 600	
600 V	
195 to 510 VDC	
195 to 550 V	
35 A	
29 A	
V systems) 6000 W (nominal 48 V systems)	
24 and 48 VDC	
16 to 67 VDC	
100 A	
osorption, float) plus manual equalization orption) plus manual equalization	
Lithium-ion, Custom	
92% (nominal 24 V)	
Dry contact switching up to 60 VDC, 30 VAC, 8 A	
Enclosure material: Indoor, ventilated, aluminium sheet metal chassis	
44.0 mm, 35.0 mm, 28.2 mm, and 22.2 mm knockouts for 1-1/4, 1, 3/4, and 1/2 inch	
trade size fittings	
IP20 13.5 kg (29.8 lb)	
20.4 kg (45 lb) 76.0 × 22.0 × 22.0 cm (30.0 × 8.6 × 8.6 in)	
113.39 × 28.68 × 31.90 cm (44.64 × 11.29 × 12.56 in)	
to 149 °F), power derating above 40 °C	
2F to 185 °F)	
6562 ft)	
Energy Management	
ebsite, SEsolar.com for the latest version of the warranty state	
sporte, obsolution in the latest version of the warranty state	
865-1034	
000-1004	
11, CSA 107.1) and CE marked for the Low-voltage Directive	
(EN50178) FCC and Industry Canada (Class B), CE marked for the EMC Directive (EN61000-	
O VAC (865-6848-21), XW Pro 8548 230 VAC 865-8548-55)	
XW+ 8548 230 VAC (865-8548-61)	
SW 4024 230 VAC (865-4024-55), SW 4048 230 VAC (865-4048-55)	
SW 4024 120/240 VAC (865-4024-21), SW 4048 120/240 VAC (865-4048-21)	
14-01	
865-1013-01 865-1036, 865-1039	
InsightHome (865-0330), InsightFacility (865-0335), Insight 865-1050-01	
865-1060-01	
865-1080-01	
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