



# 50 A MPPT Solar Charge Controller

## FEATURES

- Up to 1320 W solar input (24 V)
- Over 30% greater charging efficiency than PWM
- Battery open circuit protection with TVS
- Oversized heatsink
- Bluetooth



### EX-50ASC, EX-SC-BT

#### 50 A MPPT Solar Charge Controller

Electrical Parameters	
Battery type	LiFePO4, lead acid (sealed/gel/flooded)
Max. PV input current	50 A
Rated charging current	50 A
Max. PV input power (12 V)	660 W
Max. PV input power (24 V)	1,320 W
Full charge voltage	14.4 Vdc
Connection type	Screw terminal block
PV reverse polarity protection	Yes
Battery reverse polarity protection	Yes
TVS protection	Yes
PV over voltage protection	Yes
PV over current protection	Yes
Ingress protection	IP32

Mechanical Parameters	
Dimensions	7.2 in x 5 in x 2.8 in (183 mm x 127 mm x 70 mm)
Weight	2.25 lb (1.1 kg)

#### MODEL EX-SC-BT Bluetooth Adapter

Technical Parameters	
Stand-by power consumption	0.04 W
In-use power consumption	0.05 W
Bluetooth range	40 ft (12 m)
Connecting cable	Standard Ethernet cable
Dimensions	2.7 in x 1.5 in x 7 in (68 mm x 36 mm x 16 mm)
Mounting hole width	3.5 mm
Temperature range	-4 °F to 165 °F (-20 °C to 75 °C)
Protection	IP52 (not weatherproof)
Weight	0.25 lb (120 g)



**DISCLAIMER:** While every precaution has been taken to ensure the accuracy of the contents within this document, Expion360, Inc. assumes no responsibility for errors or omissions. Note that specifications and product functionality may change without notice.

**NOTE:** Please see the user manual for complete operating instructions.  
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