

50W Solar Panel Battery Maintainer



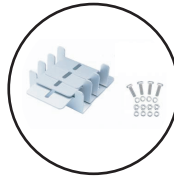
C-FSFP50MAT-A01



C-FSFP50MAT-A02



C-FSFP50MAT-A03



C-FSFP50MAT-A04

Keep Your Batteries Up.

The Furrion 50W Solar Panel Battery Maintainer has been designed to keep batteries at full charge while stored or provide a temporary power source when not connected to shore power. Made to resist all weather conditions ensuring your battery is always at optimal operational level.

Key Benefits

High efficiency cells: The Furrion 50W Solar Panel Battery Maintainer uses high quality monocrystalline cells, making it ideal for all kinds of weather conditions and providing consistent power output whether you're using it with ideal sun exposure or in low light conditions during a cloudy day.

Durable construction: Made of corrosion-resistant aluminum and tempered glass, Furrion Solar panels have been designed to be resistant to extreme weather conditions.

Smart profile: It Includes a smart charging profile and built-in safety features that protect against harmful charging conditions, while extending battery life and performance.

Main Features



MAXIMUM
POWER



WATERPROOF



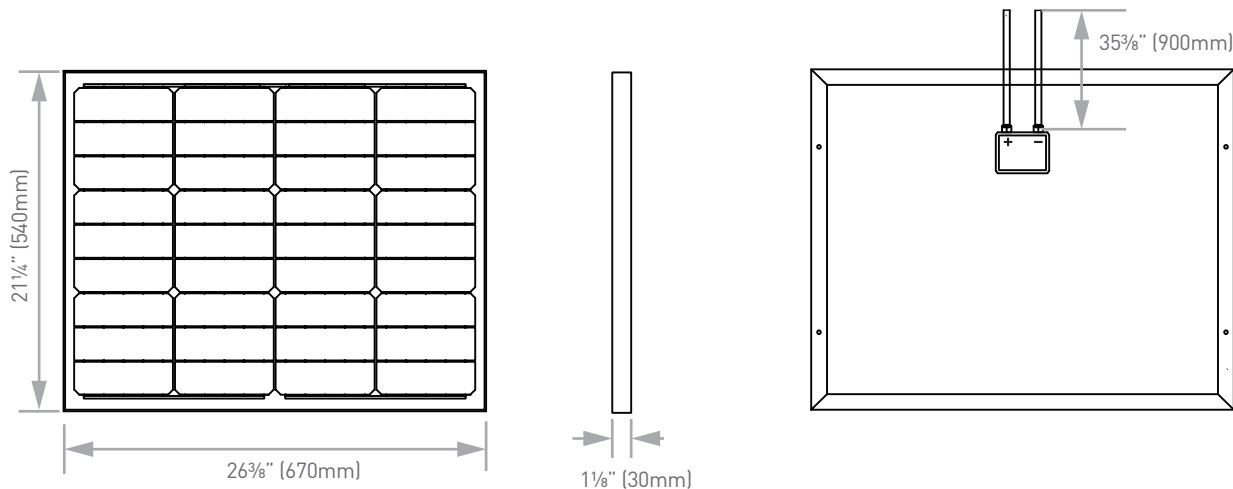
SHORT CIRCUIT &
SURGE PROTECTION



HIGH EFFICIENCY
PANEL



WITHSTANDS
HAIL, HIGH WIND AND
SNOW LOADS



Specifications (Solar Panel)

Maximum power (Pmax)	50W
Max Power Voltage (Vmp)	18.5V
Max Power Current (Imp)	2.7A
Open Circuit Voltage (Voc)	22.6V
Short Circuit Current	2.9A
Cell Type	Monocrystalline
Cell Efficiency	18%
Maximum System Voltage	36V DC
Power tolerance	± 5%
Series Fuse Rating	5 A
Temperature Co-efficient (Power)	-0.43%/ °C
Temperature Co-efficient (Voltage)	-0.32%/ °C
Temperature Co-efficient (Current)	+0.02%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	45±3°C
Cable	2.5mm², PV1-F, 35% (900mm)
Connector	Stranded Lead
Frame	Anodized Aluminum (Black)
Operation Temperature	-40°F to 185°F (-40°C to 85°C)
IP rating	IP65

Specifications (Rooftop Box)

Material	ABS with anti-UV agent
Dimension (W x H x D)	5 1/8" x 1 3/4" x 3 5/8" (130 x 43 x 93mm)
IP rating	IP65

Individual Components Part Number

C-FSFP50MAT-A01	Rigid Solar Panel for 50W Battery Maintainer
C-FSFP50MAT-A02	Rooftop box for 50W Battery Maintainer
C-FSFP50MAT-A03	PWM controller for 50W Battery Maintainer
C-FSFP50MAT-A04	Z-mounting bracket kit for 50W Battery Maintainer

Specifications (PWM Controller)

Charging current	10A
Overvoltage Protection	17V
Floating Charging Voltage	13.8V
Boost Charging Recovery Voltage	13.2V
Undervoltage	12.0V
Over-Discharge Voltage	11.0V
Cable for Solar Panel Connection	14AWG, 23% (600mm)
Cable for Battery Connection	14AWG, 23% (600mm)
Connector	Stranded Lead
Dimension (W x H x D)	3 1/4" x 1 1/16" x 2 5/16" (82 x 20 x 58 mm)
IP rating	IP65

Specifications (Z-Mounting Bracket Kit)

Dimension (per bracket) (WxHxD)	3 7/16" x 1 5/8" x 3 7/8" (88 x 42 x 100mm)
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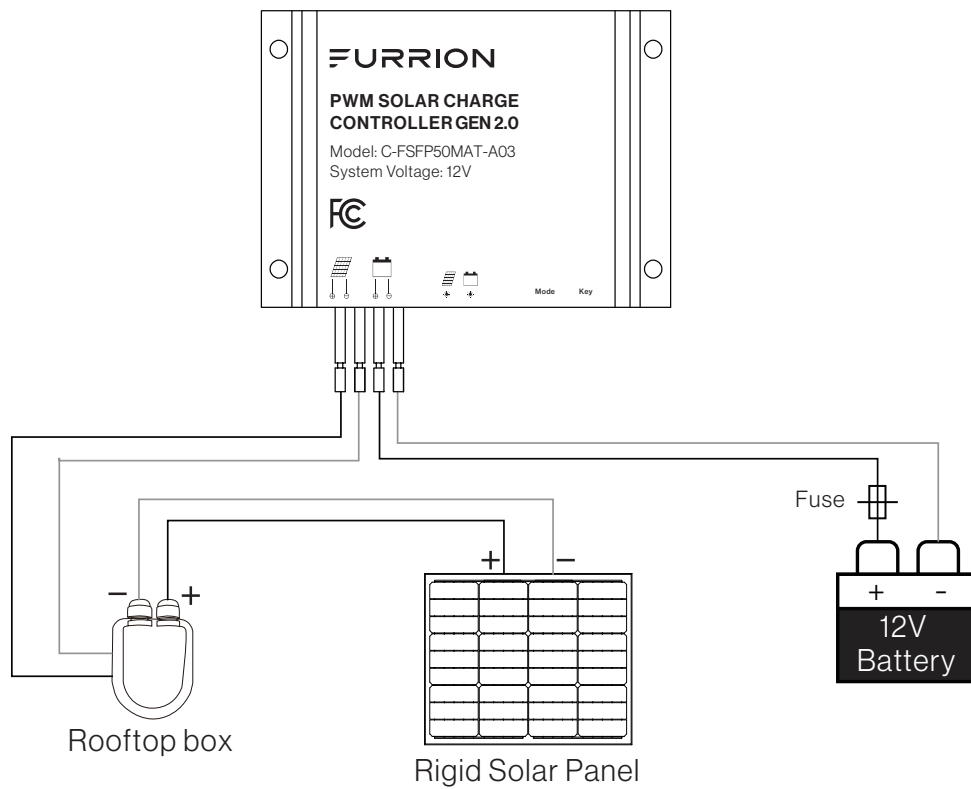
Z-mount bracket kit includes:

- Aluminum Z-Bracket (x4)
- M6 SS304 Hex Head Bolt x 20mm (x4)
- M6 SS304 Locknut (x4)
- M6 SS304 Split Lock Washer (x4)
- M6 SS304 Flat Washer (x8)

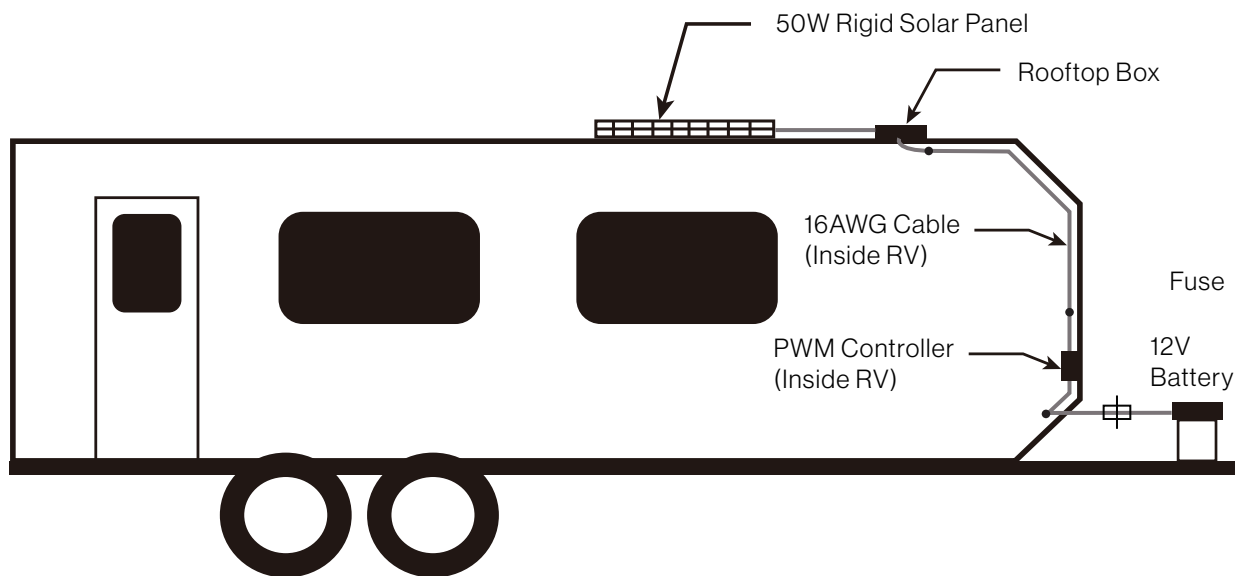
* This kit does NOT include screws to attach the Z-Mounting Brackets to roof

Packaging Information (All components in one box)

Packaging Type	Brown Carton Box
Quantity Per Box (pcs)	1
Individual Packaging Dimensions (WxHxD)	31 7/8" x 2 1/4" x 22 1/2" (810 x 57 x 570mm)
Individual Packaging Gross Weight (lbs/kg)	14.33/6.5
Individual Packaging Net Weight (lbs/kg)	11.9/5.4

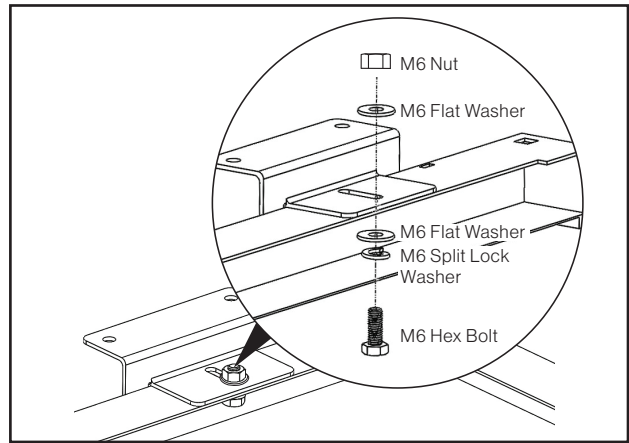
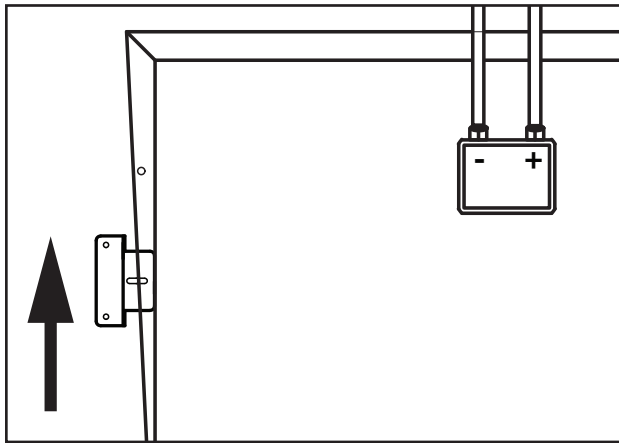
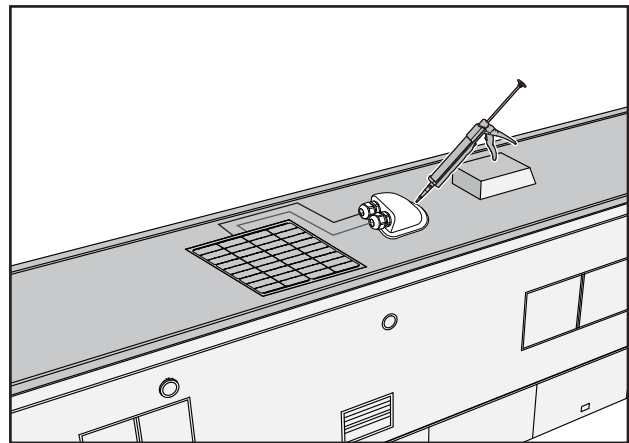
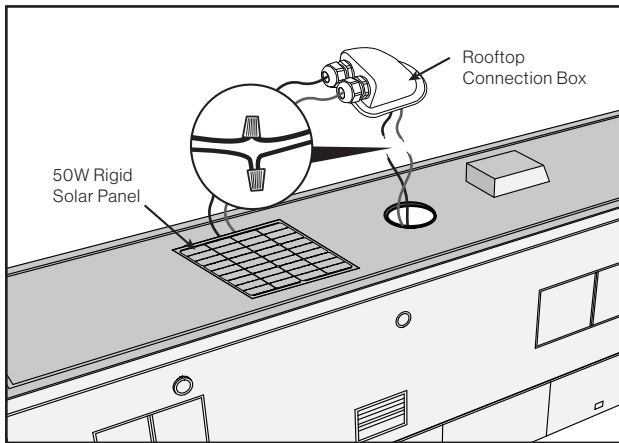


Wiring Diagram



Installation Drawing

MS-FSFP50MAT-BL-V2.1





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