

FLEXmax 100 : 300V MPPT Solar Charge Controller with AFCI by Outback



Price: CAD \$2,599.00

SKU: OPFM100-MPPT-AFCI

Product Categories: [Charge Controllers](#), [MPPT : 60A-100A HV](#), [Shop](#)

Product Tags: [100A](#), [300v](#), [afci](#), [canada](#), [charge controller](#), [flexmax 100](#), [flexmax 100 canada](#), [fm100](#), [high voltage](#), [MPPT](#), [mppt charge controller](#), [mppt solar](#), [outback canada](#), [outback flexmax 100](#), [outback fm100 canada](#)

Product Page:

<https://www.modernoutpost.com/product/flexmax-100-300v-solar-charge-controller-with-afci-by-outback/>

Product Summary

This is the popular Outback FLEXmax 100. A state-of-the-art MPPT Solar Charge Controller with integrated arc fault (AFCI) protection. With 300V input capacity, you have the ability to design your system with longer strings of solar modules, and accommodate cold-weather voltage rise - an important design issue for us

Canadians!

Product Description

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Designed with 15 years of experience manufacturing products for fault intolerant, mission-critical applications, OutBack's FLEXmax 100 delivers a high quality and reliable MPPT charge controller. The FLEXmax 100 has passed extensive quality and reliability testing, including Highly Accelerated Life Testing (HALT).

The compact, outdoor-rated enclosure keeps dust and moisture from damaging internal components. With the addition of arc and ground fault protection, and rapid shutdown capacitor discharge, the FLEXmax 100 is the most versatile high power MPPT controller on the market. Configuring the FLEXmax 100 in your system is easy with 128 days of built-in data storage, smart programming wizards (MATE3s required), and connectivity with OPTICS RE, so you can monitor, command, and control from one location.

The FLEXmax 100 charges your batteries faster. This allows you to sell energy to the grid faster, and maximize your return on investment. The FLEXmax 100 has the best price to power ratio on the market.

FLEXmax 100 Feature Highlights - 100A output for up to 6kW of charging - Updated MPPT software algorithm improves energy harvest vs other controllers - 300VDC open-circuit voltage limit enables 2-4 string configuration to minimize BOS - Programmable auxiliary control output for smart load controls - Standard 5 year warranty upgraded to 7,000W of nameplate solar power at 48V - Integrated arc fault circuit detection and interruption for optimized systems - The only fully NEC 2017 compliant charge controller solution

Three Reasons to Choose the FLEXmax FM100 Charge Controller from OutBack Power

1. DESIGNED FOR PERFORMANCE

- Raises the bar from the originators of multiple voltage MPPT charge controllers
- Updated MPPT software algorithm improves energy harvest vs other controllers
- 100A output for up to 5kW of charging
- Compatible with 24, 36 and 48VDC battery banks
- Up to 99% efficiency

2. ENGINEERED FOR RELIABILITY

- Extensive quality and reliability testing, including Highly Accelerated Life Testing (HALT)
- Outdoor-rated enclosure keeps dust and moisture from damaging internal components
- 15 years of experience manufacturing products for fault intolerant, mission-critical applications
- Standard 5 year warranty

3. EASY - TO-INSTALL, MONITOR AND CONTROL

- System configures quickly with smart programming wizards (MATE3s required)
- 300VDC open-circuit voltage limit enables 2-string configuration that minimizes BOS
- Built-in ground-fault protection and rapid shutdown capacitor discharge for easy code-compliant installation
- Monitor, command and control over the Internet with OPTICS RE
- Fully OutBack network integrated and programmable
- Programmable auxiliary control output for smart load controls
- Built-in 128 days of data logging

FLEXmax 100 Specifications in Brief

Nominal Battery System Voltage : 24VDC / 36VDC / 48VDC

Maximum Continuous Output Current : 100A

Maximum Input Current (Short-Circuit) : 64A

Maximum Array (STC Nameplate) : 3000W / 4500W / 6000W

(charging output limited to 100A at battery voltage)

Maximum PV System Voltage : 300VDC

Operating Input Voltage Range : 30VDC to 290VDC

Standby Power Consumption : ~2.5W

Peak Efficiency : 24V: 97.5% 48V: 98.8%

Charging Regulation : Three-stage Voltage Regulation

Set Points : Absorption, float, silent and equalization

Status Display : LED indicators

Remote Display and Controller : MATE3s compatible

Ingress Protection Rating : IP54

Enclosure Type : 3R

Conduit Knockouts : Bottom and sides

Weight (lb/kg) : 18.3 / 8.3

Dimensions : H x W x D (in/cm) : 22 x 8.8 x 6 / 55.9 x 22.4 x 15.2

Options : Remote Temperature Sensor (RTS), HUB4, HUB10.3, MATE3s

Certifications : UL 1741, CSA C22.2 No. 107.1, IEC 62109-1

Additional Features : Built-in GFCI, field-replaceable cooling fan

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Document Downloads

Datasheets

FLEXmax 100 AFCI Datasheet

Manual Downloads

FLEXmax 100 AFCI - Technical Documentation

Product Attributes

- Dimensions: 1 × 1 × 1 cm
- Weight: 8 kg

Product Gallery

