

## OutBack FX Sinewave Inverter / Chargers 230V 50Hz

The OutBack modular "building block" sine wave inverter/chargers can be used for both small and large power systems in both residential and commercial applications. Each OutBack inverter/charger module is a complete power conversion system - DC to AC inverter, battery charger and AC transfer switch. Additional inverter/chargers can be connected at any time in either **parallel** (230 VAC) or in **3-phase** (230Y400 VAC) configurations, allowing the system to be tailored to the specific power requirements of the application. Up to ten Inverter/chargers can be connected together to provide up to 30 kW of continuous power using a HUB10 communication manager and MATE system display. The FX Series also features a programmable AUX Relay that can be used for generator start-up, alarms & more.

The OutBack FX series inverter/chargers are designed to survive harsh environments anywhere in the world. Their unique sealed, gasketed, die-cast aluminum chassis protects the electronics against dust, corrosion, animals and bugs. The FX

series can be used in high ambient applications up to 60°C with reduced output ratings. All programmed setpoints are stored in permanent (NOV-RAM) memory to eliminate the need to reprogram the system after a shutdown or battery replacement.

The OutBack VFX series (vented) is designed for use in more protected environments. A cooling fan circulates outside air through the inverter/ charger to allow higher continuous power capacity. A removable, washable intake air filter is included with all VFX models.

FX 2024E (sealed)	) 24VDC 2000VA	\$1995	<b>FX-DCC</b>	DC Cover	\$65	FX- ACA AC Adapter	\$35
FX 2348E (sealed)	) 48VDC 2300VA	\$2245	<b>FX-DCA</b>	DC Adapter	\$45	FXA All 3 adapters in one Kit	\$129
VFX 2612E	12VDC 2600VA	\$2345	RTS	Remote Battery	Temp Ser	nsor 20 foot cord for FX or MX	\$29
VFX 3024E	24VDC 3000VA	\$2495	<b>TURBO</b>	Optional circ	culating fa	an for sealed FX inverters	\$149
VFX 3048E	48VDC 3000VA	\$2495		•	J		-



## OutBack MX60 PV MPPT 60Amp Solar Controller

The OutBack MX60 Maximum Power Point Tracking (MPPT) charge controller enables your PV array to achieve its highest possible performance. Up to **30% or more** power from your PV array! Rated for up to 60 amps of DC output current, the OutBack MX60 can be used with battery systems from 12 to 60 VDC with PV open circuit voltage as high as **140** VOC. The MX60's setpoints are fully adjustable to allow use with virtually any battery type, chemistry and charging profile. The MX60 has built in Data Logging capabilities measuring Kilowatt hours, with resetable counter & more data about your PV system. Holds **64 days** of data in memory.

The OutBack MX60 allows you to use a higher output voltage PV array with a lower voltage battery - such as charging a 24 VDC battery with a 48 or 60 VDC PV array. This reduces wire size and power loss from the PV array, saving you money and maximizing the performance of your PV system. MX60 comes standard with an easy to use and understand display of the PV system's performance. The four line, 80 character, backlit LCD display is also used for programming and monitoring of the system's operation. The OutBack MX60 can also be connected to the OutBack MATE system controller and display to allow monitoring of up to ten MX60 controllers from a distant location - up to 1000 feet (305m) away.

MX 60 \$649 RTS Remote Battery Temp Sensor 20 foot cord for FX or MX \$29

## **OutBack MATE System Controller and Display**

The OutBack MATE is a complete system controller and display for both the OutBack FX inverter/chargers and the MX60 MPPT PV charge controller. It provides a readout display of the operation, allows control and adjustment of the setpoints, and also coordinates the operation of the entire system to maximize performance. A single MATE is able to connect to multiple OutBack products, using a four port HUB-4 or ten port HUB-10. The MATE Display and Controller can be mounted up to 1000' (305m) away!

The OutBack MATE includes a 4-line backlit LCD display with 80 characters and a 50' (16m) cable. All of the programmed setpoints are stored in permanent (NOV-RAM) memory to eliminate the need to reprogram the system after a shutdown or battery replacement. The OutBack Mate also includes a built in real time clock and calendary

replacement. The OutBack Mate also includes a built in real time clock and calendar which allows programming of the inverter operation based on the time of day and day of the week. This can be used to allow the system to work with time-of-day power rates or to limit a generator's run time to a specific time period of the day or week. The MATE also includes an opto-isolated RS232 port for connection to the serial port of a PC computer. Third party software programs for data logging and graphical display of the system's operation and performance are available separately.

MATE \$295 HUB 4 \$195 up to 4 Outback products STACK-2 Stacking kit for two inverters only \$85 HUB 10 \$375 up to 10 Outback products