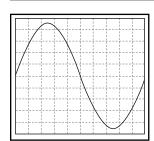
M-Series Rugged Marine Power Electronics







OutBack M-Series inverter/chargers provide true sinewave power output, and intelligent battery charging. They are modularly expandable to your power needs providing a complete power conversion solution. They incorporate a DC to AC inverter, battery charger, and an AC transfer switch, which combines 30 amp pass through and neutral/ground switching.

All OutBack inverter/chargers produce virtually distortion free sinewave AC power for onboard electronics like sensitive home theater equipment and microwaves with minimal RF interference. Industry leading surge power

starts heavy loads like air conditioning. Power factor corrected battery charging gets the most out of your shore cord and generator while maximizing the life and performance of your batteries. Ultra fast AC transfer switch with neutral/ground switching seamlessly transfers shore cord current without dropping loads. Modular expandability is achieved through networked communications, allowing your inverter system to grow with your power consumption needs.

The Sealed OutBack M-Series inverter/charger is the most rugged design in the world. Conformal coated circuit boards, powder coated die-cast aluminum chassis resist corrosion. No other inverter/charger can operate in extreme climate conditions, such as highly corrosive salt air, and achieve the same level of reliability and performance as the sealed M-Series.

The *Vented* OutBack M-Series has the same proven technology and conformal coated circuit boards as the sealed version but offered in a vented chassis for higher power output. The fully screened "bug-proof" openings keep the power conversion components cool in very hot environments even when operated at high power for extended periods in more protected environments.

The OutBack M-Series inverter is the superior choice when you need a reliable, powerful, modular, and true sinewave inverter/charger.

True Sinewave AC Output

Intelligent Battery Charging

Modular System

High Surge Capability

Easy to Use

"Mount Anywhere" Design

Corrosion Resistant Circuit Boards

High Efficiency

Neutral/Ground Switching

Networked Communications

Silent Operation

Standard 2 Year Warranty

Optional 5 Year Warranty

| M-Series Specification | ons | Sealed Models FX2012MT | FX2524MT | FX2532MT | Vented Models VFX2812M | VFX3524M | VFX3232M |
|--|------------|--------------------------------------|---------------------------|------------------|--------------------------------------|---------------------------|------------------|
| Nominal DC Input Voltage | | 12VDC | 24VDC | 32VDC | 12VDC | 24VDC | 32VDC |
| Continuous Power Rating at 25° C | | 2000 VA | 2500 VA | 2500 VA | 2800 VA | 3500 VA | 3200 VA |
| AC Voltage/Frequency | | 120 VAC 60 Hz | 120 VAC 60 Hz | 120 VAC 60 Hz | 120 VAC 60 Hz | 120 VAC 60 Hz | 120 VAC 60 Hz |
| Continuous AC RMS Output at 25° C | | 17.0 amps AC | 20.8 amps AC | 20.8 amps AC | 23.3 amps AC | 29.2 amps AC | 26.6 amps AC |
| Idle Power | Full | ≈ 20 Watts | ≈ 20 Watts | ≈ 21 Watts | ≈ 20 Watts | ≈ 20 Watts | ≈ 21 Watts |
| | Search | 2.6 Watts | 2.6 Watts | 2.6 Watts | 2.6 Watts | 2.6 Watts | 2.6 Watts |
| Typical Efficiency | | 90% | 92% | 92% | 90% | 92% | 92% |
| Total Harmonic Distortion | Typical | 2% | 2% | 2% | 2% | 2% | 2% |
| | Maximum | 5% | 5% | 5% | 5% | 5% | 5% |
| Output Voltage Regulation | | ± 2% | ± 2% | ± 2% | ± 2% | ± 2% | ± 2% |
| Maximum Output Current | Peak | 56 amps AC | 70 amps AC | 56 amps AC | 56 amps AC | 70 amps AC | 56 amps AC |
| <u>'</u> | RMS | 40 amps AC | 50 amps AC | 40 amps AC | 40 amps AC | 50 amps AC | 40 amps AC |
| AC Overload Capability | Surge | 4800 VA | 6000 VA | 4800 VA | 4800 VA | 6000 VA | 4800 VA |
| | 5 Second | 4000 VA | 4800 VA | 4000 VA | 4000 VA | 5000 VA | 4000 VA |
| | 30 Minutes | 2500 VA | 3200 VA | 2500 VA | 3200 VA | 4000 VA | 4000 VA |
| AC Input Current Maximum | | 30 amps AC | 30 amps AC | 30 amps AC | 30 amps AC | 30 amps AC | 30 amps AC |
| AC Input Voltage Range (MATE Adjustable) | | 80 to 150 VAC | 80 to 150 VAC | 80 to 150 VAC | 80 to 150 VAC | 80 to 150 VAC | 80 to 150 VAC |
| AC Input Frequency Range | | 54.0 to 66.0 Hz | 54.0 to 66.0 Hz | 54.0 to 66.0 Hz | 54.0 to 66.0 Hz | 54.0 to 66.0 Hz | 54.0 to 66.0 Hz |
| DC Input Range | | 10.5 to 17.0 VDC | 21.0 to 34.0 VDC | 28.0 to 45.3 VDC | 10.5 to 17.0 VDC | 21.0 to 34.0 VDC | 28.0 to 45.3 VDC |
| Continuous Battery Charge Output | | 80 amps DC | 55 amps DC | 35 amps DC | 125 amps DC | 85 amps DC | 45 amps DC |
| Minimum Recommended DC Breaker | • | OBDC-250 | OBDC-175 | OBDC-125 | OBDC-250 | OBDC-250 | OBDC-175 |
| Recommended Battery Cable | | #4/0 AWG | #2/0 AWG | #2/0 AWG | #4/0 AWG | #4/0 AWG | #2/0 AWG |
| Recommended Battery Types | | F | looded lead acid, AGM, ge | l | F | looded lead acid, AGM, ge | el |
| Warranty | | Standard 2 year / Optional 5 year | | | Standard 2 year / Optional 5 year | | |
| Certifications | | | ETL listed to UL458 | | ETL listed to UL458 | | |
| Weight Unit | | 56 lbs (25 kg) | | | 54 lbs (25 kg) | | |
| | Shipping | 67 lbs (30 kg) | | | 62.2 lbs (28 kg) | | |
| Dimensions (H x W x L) | Unit | 13 x 8.25 x 16.25" (33 x 21 x 41 cm) | | | 12 x 8.25 x 16.25" (30 x 21 x 41 cm) | | |
| , | Shipping | 21.75 x 13 x 22" (55 x 33 x 56 cm) | | | 21.75 x 13 x 22" (55 x 33 x 56 cm) | | |



The MATE2M is a complete management tool for your OutBack marine power conversion system. The onboard CPU coordinates the operation of all your OutBack system components for maximum performance and smooth system integration.

A backlit LCD provides a display for system monitoring while four soft keys allow navigation of the menu system and adjustment of settings. Information for up to 10 inverter/chargers and other OutBack power conversion equipment is available at your fingertips through the communications HUB. Your programmed settings are stored in permanent

memory to eliminate the need

to reprogram the system in the event of a system shutdown or battery replacement.

The OutBack MATE2M includes a built in clock and calendar which allows timer based programming of power system operation. This enables the user to specify a generator's run time to a specific time period of the day or week.

MATE2M Specifications

| Operation | 4 soft keys, dedicated inverter and AC input keys |
|---------------------------|--|
| Input | OutBack Cat5e RJ45 network cable |
| Output (RS232 model only) | RS232 serial to PC communication for data logging (optional software required) |
| Display | Back lit 4 line LCD |
| System Monitoring | AC/DC Voltage and Current Meters, Errors and Warnings |
| Adjustable Parameters | Shore Cord Amperage, Generator Start/Stop |
| Settings Memory | 32k nonvolatile flash RAM |
| Dimensions HxWxD | 4.5 x 6.15 x 1.7" (11 x 16 x 4 cm) |
| Weight | I lbs (454 g) |
| Warranty | 2 Year Standard / 5 Year Optional |



"Corrosion resistant aluminum marine PS2 system components are available for larger applications."



DC Power (800) 967-6917 www.dcpower-systems.com