

MidNite Solar

E-Panel

The MidNite Solar E-Panel is a quick and easy way to install most inverters. They come standard with the basic over-current protection and disconnects required to install your renewable energy system. ETL Listed to UL and CSA standards.

OutBack E-Panels

OutBack inverters mount on a unique hinged door to keep the footprint of the system as small as possible. They come standard with left-hand hinge, allowing the charge controller to mount on the right. The STS version leaves room for the OutBack AC box with a surge arrester for grid-tie applications and the AL-PLUS version has room to mount an inverter and MX60 on the door.

Mounting brackets are included to aid in one-person installations. Main breaker, inverters cables, a 500-amp/50mv shunt for battery monitoring systems, 175-amp AC-power distribution block, 50-amp AC-input disconnect for generator or utility, 50-amp AC bypass switch are included and pre-wired. They come with a mounting bracket for an OutBack MX60. Cutouts for mounting up to six additional 13mm-wide DIN rail mount breakers are provided as well as a cutout for a GFCI-style AC outlet.

If you are installing an Apollo T80 charge controller, use the 80-amp GFP or two 80-amp breakers. For a larger selection of breakers see pages 105.

| MidNite model | E-Panels | Item code | Price |
|------------------------------|--|-----------|-------|
| For OutBack Inverters | | | |
| MNE125ST-L | Gray steel chassis with 125A inverter breaker – left hinge | 030-05126 | \$489 |
| MNE175ST-L | Gray steel chassis with 175A inverter breaker – left hinge | 030-05130 | \$529 |
| MNE250ST-L | Gray steel chassis with 250A inverter breaker – left hinge | 030-05134 | \$529 |
| MNE125AL-L | White alum chassis with 125A inverter breaker – left hinge | 030-05138 | \$529 |
| MNE175AL-L | White alum chassis with 175A inverter breaker – left hinge | 030-05142 | \$559 |
| MNE250AL-L | White alum chassis with 250A inverter breaker – left hinge | 030-05146 | \$559 |
| MNE125STS | Gray steel chassis with 125A inverter breaker 18" wide | 030-05127 | \$559 |
| MNE175STS | Gray steel chassis with 175A inverter breaker 18" wide | 030-05131 | \$599 |
| MNE250STS | Gray steel chassis with 250A inverter breaker 18" wide | 030-05135 | \$599 |
| MNE175AL-PLUS | White alum chassis with 175A inv breaker w/ charge controller mt | 030-05148 | \$639 |
| MNE250AL-PLUS | White alum chassis with 250A inv breaker w/ charge controller mt | 030-05149 | \$639 |
| MNEPV63 | 63A 150VDC DIN rail mount breaker (13mm wide) | 053-03038 | \$13 |
| MNDC-GFP | 63A 150 VDC ground fault protector | 030-05249 | \$69 |
| MNDC-GFP80 | 80A 125 VDC ground fault protector | 030-05250 | \$89 |
| MNEDC80 | 80A panel mount breakers | 030-04333 | \$25 |

Magnum E-Panels

Magnum inverters mount on a unique hinged door to keep the footprint of the system as small as possible. Mounting brackets are included to aid in one-person installations. They come with a main breaker, 2/0 inverters cables, a 500-amp/50mv shunt for battery monitoring systems, an AC input and bypass, PV input bus bars, DIN rails, 3-panel mount breaker knockouts, ground bus, remote display mounting brackets, charge controller bracket, wall mount bracket and lots of hardware.

| MidNite model | E-Panels | Item code | Price |
|-----------------------------|---|-----------|-------|
| For Magnum Inverters | | | |
| MNE175STM | Gray steel chassis with 175-amp inverter breaker | 030-05161 | \$599 |
| MNE250STM | Gray steel chassis with 250-amp inverter breaker | 030-05163 | \$599 |
| MNE175STM-240 | White steel chassis with 175-amp inv breaker 120/240 | 030-05167 | \$799 |
| MNE125STMM-L | Gray steel chassis with 125-amp inv breaker for MM-series | 030-05172 | \$529 |



Xantrex E-Panels

The XW inverter is mounted directly above the E-Panel. It comes with a 250-amp inverter battery breaker, AC inputs for generator and utility, knock-outs for up to 7 DIN rail mount breakers and 6 panel mount breakers and a 500-amp shunt. Massive tin-plated copper bus bars connect to the XW's battery terminals. There are bus bars for AC inputs, AC output, neutral, ground, PV + in, PV- in, Bat +, Bat-, covered by a metal dead-front behind the reversible door. Charge controllers mount to either side or both sides at once for dual controllers. The AC bypass can be configured as input and output on/off as well as AC bypass. The XW MPPT controller requires no mounting bracket. MX60, MF80 and Classic require right or left E-Panel charge controller mounting brackets. A right-hand bracket is included. The color-matched enclosure is 16" wide, 18" tall, 8" deep and weighs 42 pounds.



DR and TR E-Panels

Sounds strange but now that the DR inverter has been discontinued, MidNite designed an E-Panel for it! This unit also works for the replacement TR inverter from Xantrex. It comes with all the normal E-Panel features such as inverter cables, PV+ busbar, battery+ busbar, 50-amp AC input/output bypass, 50-amp AC input disconnect, 175- or 250-amp 125VDC inverter battery breaker, AC busbars, covers for DC and AC end, wall mounting brackets and hardware. AC breakers are rated at 277VAC. Dimensions are 11" x 14" x 28" and weight is 30 lbs.



| MidNite model | Description | Item code | Price |
|--|--|-----------|-------|
| For Xantrex XW and TR Inverters | | | |
| MNE250XW | E-panel to mount under one XW inverter | 030-05181 | \$950 |
| MNE-XE-L-bracket | Left-side charge controller bracket | 030-05183 | \$20 |
| MNE175DT/TR-L | Gray steel chassis with 175-amp inverter breaker | 030-05186 | \$559 |
| MNE250DR/TR-L | Gray steel chassis with 250-amp inverter breaker | 030-05187 | \$559 |

More E-Panels

The E-Panel Lites come with a left-hand door, inverter breaker, pre-wired AC input and bypass, 500-amp/50mV shunt, AC terminal blocks, DIN rails, wall mounting brackets, instructions and lots of hardware.

UltraLite comes with a 50-amp AC input disconnect, 125-, 175- or 250-amp inverter breaker, ground busbar and the normal hardware and DC covers normally associated with E-Panels. They do not include an AC Bypass switch or AC and DC busbars.

Nottagutter accepts 2 UltraLites on top and 2 on the bottom, has bypass.

| MidNite model | Description | Item code | Price |
|-------------------------------------|---|-----------|-------|
| Miscellaneous MidNite Extras | | | |
| MNE125LT | Gray steel chassis with 125-amp inverter breaker (Lite) | 030-05105 | \$459 |
| MNE175LT | Gray steel chassis with 175-amp inverter breaker (Lite) | 030-05109 | \$499 |
| MNE250LT | Gray steel chassis with 250-amp inverter breaker (Lite) | 030-05113 | \$499 |
| MNE125ALT | White alum chassis with 125-amp inverter breaker (Lite) | 030-05101 | \$499 |
| MNE175ALT | White alum chassis with 175-amp inverter breaker (Lite) | 030-05102 | \$539 |
| MNE250ALT | White alum chassis with 250-amp inverter breaker (Lite) | 030-05103 | \$539 |
| MNE125ALULite-L | 125 amp alum OutBack UltraLite w/o bypass | 030-05116 | \$479 |
| MNE175ALULite-L | 175 amp alum OutBack UltraLite w/o bypass | 030-05117 | \$479 |
| MNE250ALULite-L | 250 amp alum OutBack UltraLite w/o bypass | 030-05118 | \$479 |
| Nottagutter | Gutter with bypass, bus bars and breakers | 030-05120 | \$659 |

Please call us with any questions! Our contact information is on the cover.

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PRESENTS

THE CLASSIC

425-374-9060

OutBack

FLEXware Complete Power Systems

Fully Assembled and Tested

NEC-compliant pre-assembled power systems include inverter(s), AC enclosure inverter bypass, DC enclosure, inverter disconnect breaker and shunt, all mounted to a back plate and wired. Charge controllers and battery cables and displays are not included. Charge controllers, additional AC and DC input, and load breakers can be added at the time of pre-assembly or in the field. Some options are listed below. Many other options are available. Please contact us for more information. Power systems ship by truck freight. ETL Listed to UL standards.

Complete Kits to Assemble on Site

All our FLEXware systems are available as parts kits to assemble in place. All parts are UPS shippable.

FLEXware 500 System

A FLEXware 500-based system will satisfy a majority of renewable energy applications with large power requirements such as residential, light commercial or rural electrification systems by supporting up to two FX Series inverter/chargers and up to two MX charge controllers. FLEXware 500 AC and DC enclosures accommodate all the essential protective devices while still providing lots of room for additional breakers and large cable connections. In addition to the ability to be mounted horizontally, a FLEXware 500 based system can also be mounted vertically for added versatility. FLEXware 500 systems come with one RTS, IOB-D-120/240VAC and HUB4. Two-inverter systems also come with a X-240.

FLEXware 1000 System

A FLEXware 1000-based system is best utilized in applications with greater power requirements like large residential, commercial or mini-grid projects. FLEXware 1000 system architecture is capable of supporting up to four FX Series inverter/chargers, four MX charge controllers, and all the required AC and DC components and wiring. FLEXware 1000 is easily expandable for systems as large and complex as your imagination allows. FLEXware 1000 AC and DC enclosures accommodate all essential protective devices while still providing lots of room for additional breakers and large cable connections. With mounting provisions for three DC shunts, there is now space for enough to max out the inputs of multi-channel amp-hour meters. For added versatility a FLEXware 1000-based system can be mounted horizontally or vertically. FLEXware 1000 systems come with one RTS, IOB-Q-120/240VAC, HUB10 and X-240.

Both the FLEXware 500 and 1000 systems come with the MATE remote monitors (page 89).



| Model | FLEXware type | Inverter(s) qty - model | Rated power kW - AC output | DC Voltage | Battery charger | Assembled & tested | | Parts only | |
|--------------------|---|-------------------------|----------------------------|------------|-----------------|--------------------|----------|------------|----------|
| | | | | | | Item code | Price | Item code | Price |
| OBFW5-FX2012T/S | 500 | 1 – FX2012T | 2.0kW 120V | 12 VDC | 80 AMP | 033-00321 | \$4,689 | 031-01015 | \$4,122 |
| OBFW5-FX2012T/D | 500 | 2 – FX2012T | 4.0kW 120/240V | 12 VDC | 160 AMP | 033-00323 | \$7,819 | 031-01017 | \$7,095 |
| OBFW5-VFX2812/S | 500 | 1 – VFX2812 | 2.8kW 120V | 12 VDC | 125 AMP | 033-00325 | \$4,889 | 031-01019 | \$4,322 |
| OBFW5-VFX2812/D | 500 | 2 – VFX2812 | 5.6kW 120/240V | 12 VDC | 250 AMP | 033-00327 | \$8,219 | 031-01021 | \$7,495 |
| OBFW5-FX2524T/S | 500 | 1 – FX2524T | 2.5kW 120V | 24 VDC | 55 AMP | 033-00329 | \$4,671 | 031-01023 | \$4,104 |
| OBFW5-FX2524T/D | 500 | 2 – FX2524T | 5.0kW 120/240V | 24 VDC | 110 AMP | 033-00331 | \$7,826 | 031-01025 | \$7,102 |
| OBFW5-VFX3524/S | 500 | 1 – VFX3524 | 3.5kW 120V | 24 VDC | 85 AMP | 033-00333 | \$4,889 | 031-01027 | \$4,322 |
| OBFW5-VFX3524/D | 500 | 2 – VFX3524 | 7.0kW 120/240V | 24 VDC | 170 AMP | 033-00335 | \$8,217 | 031-01029 | \$7,493 |
| OBFW5-FX3048T/S | 500 | 1 – FX3048T | 3.0kW 120V | 48 VDC | 35 AMP | 033-00337 | \$4,602 | 031-01031 | \$4,035 |
| OBFW5-FX3048T/D | 500 | 2 – FX3048T | 6.0kW 120/240V | 48 VDC | 70 AMP | 033-00339 | \$7,677 | 031-01033 | \$6,953 |
| OBFW5-VFX3648/S | 500 | 1 – VFX3648 | 3.6kW 120V | 48 VDC | 45 AMP | 033-00341 | \$4,798 | 031-01035 | \$4,231 |
| OBFW5-VFX3648/D | 500 | 2 – VFX3648 | 7.2kW 120/240V | 48 VDC | 90 AMP | 033-00343 | \$8,037 | 031-01037 | \$7,313 |
| OBFW10-FX2524T/D | 1000 | 2 – FX2524T | 5.0kW 120/240V | 24 VDC | 110 AMP | 033-00365 | \$8,715 | 031-01039 | \$7,991 |
| OBFW10-FX2524T/Q | 1000 | 4 – FX2524T | 10.0kW 120/240V | 24 VDC | 220 AMP | 033-00367 | \$14,415 | 031-01041 | \$13,153 |
| OBFW10-VFX3524/D | 1000 | 2 – VFX3524 | 7.0kW 120/240V | 24 VDC | 170 AMP | 033-00369 | \$9,113 | 031-01043 | \$8,389 |
| OBFW10-VFX3524/Q | 1000 | 4 – VFX3524 | 14.0kW 120/240V | 24 VDC | 340 AMP | 033-00371 | \$15,266 | 031-01045 | \$14,004 |
| OBFW10-FX3048T/D | 1000 | 2 – FX3048T | 6.0kW 120/240V | 48 VDC | 70 AMP | 033-00373 | \$8,568 | 031-01047 | \$7,844 |
| OBFW10-FX3048T/Q | 1000 | 4 – FX3048T | 12.0kW 120/240V | 48 VDC | 140 AMP | 033-00375 | \$14,121 | 031-01049 | \$12,858 |
| OBFW10-VFX3648/D | 1000 | 2 – VFX3648 | 7.2kW 120/240V | 48 VDC | 90 AMP | 033-00377 | \$8,970 | 031-01051 | \$8,245 |
| OBFW10-VFX3648/Q | 1000 | 4 – VFX3648 | 14.4kW 120/240V | 48 VDC | 180 AMP | 033-00379 | \$14,899 | 031-01053 | \$13,636 |
| Model | Description | | | | | Install options | | Parts only | |
| | | | | | | Item code | Price | Item code | Price |
| MX60 Control | One OutBack MX60 60-amp charge controller mounted on side with breaker | | | | | 033-01513 | \$795 | 031-02407 | \$740 |
| 2 x MX60 | Two OutBack MX60 60-amp charge controller mounted on side with breakers | | | | | 033-01515 | \$1,601 | 031-02409 | \$1,465 |
| 2 x MX60 | Two OutBack MX60 60-amp charge controller mounted on top with breakers | | | | | 033-01517 | \$1,565 | 031-02411 | \$1,480 |
| FLEXmax 80 Control | One OutBack FM80 80-amp charge controller mounted on side with breaker | | | | | 033-01521 | \$958 | 031-02413 | \$890 |
| 2 x FLEXmax 80 | Two OutBack FM80 80-amp charge controller mounted on side with breakers | | | | | 033-01522 | \$1,877 | 031-02415 | \$1,765 |
| Trimetric meter | Amp-hour meter – installed in PSDC 24 volt system | | | | | 033-01215 | \$273 | 031-02417 | \$210 |
| Trimetric meter | Amp-hour meter – installed in PSDC 48 volt system | | | | | 033-01216 | \$282 | 031-02419 | \$230 |
| OBDC-GFP2 | Ground fault interrupter for PV array installed in DC system box | | | | | 033-01221 | \$171 | 031-02421 | \$135 |
| OBDC-100 | 100-amp DC load breaker installed in system | | | | | 033-01227 | \$65 | 031-02423 | \$63 |
| OBDC-80 | 80-amp DC load breaker installed in system | | | | | 033-01228 | \$42 | 031-02425 | \$32 |
| OBDC-60 | 60-amp DC load breaker installed in system | | | | | 033-01229 | \$33 | 031-02427 | \$23 |
| OBDC-40 | 40-amp DC load breaker installed in system | | | | | 033-01231 | \$33 | 031-02429 | \$17 |
| OBDC-30 | 30-amp DC load breaker installed in system | | | | | 033-01233 | \$33 | 031-02431 | \$17 |
| OBDC-15 | 15-amp DC load breaker installed in system | | | | | 033-01235 | \$33 | 031-02433 | \$17 |
| OBDC-10 | 10-amp DC load breaker installed in system | | | | | 033-01237 | \$33 | 031-02435 | \$17 |
| OBDC-1 | 1-amp DC load breaker installed in system | | | | | 033-01239 | \$33 | 031-02437 | \$17 |
| Flexnet | Flexnet metering installed with 2 additional shunts (3 total) | | | | | 033-01291 | \$640 | 031-02451 | \$490 |
| Aux Relay | Aux relay installed (specify inverter or MX60) | | | | | 033-01287 | \$106 | 031-02455 | \$25 |
| SP-ACA | Surge Protector ACA installed (one per inverter) | | | | | 033-01285 | \$270 | 031-02463 | \$250 |

Xantrex

DC Disconnect

The Xantrex DC Disconnect is a white, powder-coated indoor enclosure with conduit knockouts for connection to inverters, batteries, DC charging sources, charge controllers and DC load centers. It comes with one 175A or 250A circuit breaker for an inverter (with space for a second breaker for a second inverter; order separately) that meets the National Electric Code requirements for disconnection and overcurrent protection of battery-based power systems. There are knockouts on the sides for four 15- to 100-amp DC breakers used for charging sources and DC loads. Use the DC Bonding Block (DCBB; order separately below) for connecting the negative cables and for single-point DC system grounding. There are pre-drilled places inside for two metering shunts. Knock-outs on the top are provided for mounting two Xantrex C-Series or OutBack MX-60 PV charge controllers, or one BlueSky PV charge controller. Knockouts on the sides are designed for mounting two Xantrex SW, SW Plus, or DR inverter/chargers with their optional conduit boxes and 2" offset nipples.

Order 175A or 250A DC surface mount circuit breakers listed at right for adding second inverter breaker. Order 15A to 100A DC panel-mount circuit breakers on the next page to use in the DC Disconnect side spaces. Use the DC175 for the Xantrex SW4048, SW Plus 2524 & 2548, DR1512, DR1524, and DR2424 inverters. Use the DC250 for the Xantrex SW4024, SW5548, DR2412, and DR2436 inverters. ETL Listed to UL508. Dimensions: 21"H x 10.5"W x 5"D. Weight: 14 pounds.



| Xantrex model | Description | Item code | Price |
|--|----------------------------|-----------|-------|
| DC250 | Xantrex 250A DC disconnect | 030-01414 | \$329 |
| DC175 | Xantrex 175A DC disconnect | 030-01411 | \$329 |
| DCBB | DC bonding block | 030-01417 | \$75 |
| GJ1-175-SM | 175 A add-on breaker | 053-01056 | \$119 |
| GJ1-250-SM | 250 A add-on breaker | 053-01061 | \$119 |
| GJ1 Rear mounting kit for second breaker | | 053-01066 | \$10 |

MidNite Solar

Mini-DC Disconnect Power Center

Use this small DC disconnect, which includes the inverter breaker, to provide overcurrent protection for any single inverter. It has a DIN rail for additional rail mounted breakers for DC inputs or loads and it is pre-drilled for a shunt and optional busbars listed below. The white powder-coated aluminum chassis measures 10" X 5" X 18" and weighs 7 pounds. Three main breaker sizes are available.

Baby Box

The Baby Box encloses up to four MNEPV or MNEAC DIN rail breakers. It is a general-use enclosure for retrofits, a small inverter disconnect, a PV disconnect or a small AC or DC distribution center. It has concentric ¾" and 1" knockouts at each end. Breakers are not included. Order DIN rail breakers on the next page. Boxed: 3" x 3" x 7" and weighs 2 pounds.

Accessories

These UL Recognized components can be use in the Mini-DC Disconnect and Baby Box above.

Busbars with colored insulators. Each has four 1/0 and eleven #6 usable wire slots, with two sizes of 10-32 screws. 4.63" long.

Ground busbar, 3.45" long with green screws. Two 1/0 and seven #6 wire slots with mounting screws.



| Model | Description | Item code | Price |
|---------|-------------------------|-----------|-------|
| MNDC125 | 125A mini-DC disconnect | 053-00091 | \$205 |
| MNDC175 | 175A mini-DC disconnect | 053-00092 | \$235 |
| MNDC250 | 250A mini-DC disconnect | 053-00093 | \$235 |
| Bay Box | Baby box breaker center | 053-00089 | \$36 |
| MNTBR | Red terminal busbar | 053-00105 | \$17 |
| MNTBB | Black terminal busbar | 053-00106 | \$17 |
| MNTBW | White terminal busbar | 053-00107 | \$17 |
| MNGBB | Ground busbar | 053-00100 | \$12 |

DIN mount AC breakers with set-screw compression terminals for 14 to #2AWG wire. Use these for AC in OutBack FLEXware and MidNite E-panels.

| Breaker amps | Poles | Voltage rating | Frequency rating | Width (inches) | OutBack number | MidNite Solar # | Item code | Price |
|--------------|-------|----------------|------------------|----------------|--------------------|-----------------|-----------|-------|
| 15 | 1 | 120 | 50/60HZ AC | 0.5 | OBB-15-120VAC-DIN | MNEAC15 | 030-04415 | \$19 |
| 15 | 2 | 120/240 | 50/60HZ AC | 1 | OBB-15D-240VAC-DIN | | 030-04416 | \$39 |
| 20 | 1 | 120 | 50/60HZ AC | 0.5 | OBB-20-120VAC-DIN | MNEAC20 | 030-04418 | \$19 |
| 20 | 2 | 120/240 | 50/60HZ AC | 1 | OBB-20D-240VAC-DIN | | 030-04419 | \$39 |
| 25 | 2 | 120/240 | 50/60HZ AC | 1 | OBB-25D-240VAC-DIN | | 030-04421 | \$39 |
| 10 | 1 | 277 | 50/60HZ AC | 0.5 | OBB-10-277VAC-DIN | MNEAC10 | 030-04439 | \$19 |
| 15 | 1 | 277 | 50/60HZ AC | 0.5 | OBB-15-277VAC-DIN | | 030-04440 | \$19 |
| 30 | 1 | 277 | 50/60HZ AC | 0.5 | OBB-30-277VAC-DIN | MNEAC30 | 030-04437 | \$19 |
| 30 | 2 | 277/480 | 50/60HZ AC | 1 | OBB-30D-480VAC-DIN | | 030-04414 | \$39 |
| 30 | 3 | 277/480 | 50/60HZ AC | 1.5 | OBB-30T-480VAC-DIN | MNEAC30-3P | 030-04435 | \$59 |
| 50 | 1 | 277 | 50/60HZ AC | 0.5 | OBB-50-277VAC-DIN | MNEAC50 | 030-04422 | \$19 |
| 50 | 2 | 277/480 | 50/60HZ AC | 1 | OBB-50D-480VAC-DIN | | 030-04423 | \$39 |
| 50 | 3 | 277/480 | 50/60HZ AC | 1.5 | OBB-50T-480VAC-DIN | MNEAC50-3P | 030-04432 | \$59 |
| 60 | 1 | 277 | 50/60HZ AC | 0.5 | OBB-60-277VAC-DIN | MNEAC60 | 030-04431 | \$29 |
| 60 | 2 | 277/480 | 50/60HZ AC | 1 | OBB-60D-480VAC-DIN | | 053-03036 | \$41 |



Panel mount breakers with stud terminals. Ring terminals on wire are required. Use these breakers for DC protection in OutBack FLEXware enclosures, and MidNite E-panels when equipped for the Apollo T-80 controller. Stud size is 1/4" on 80A and smaller, 5/16" on 100A and 125A and 3/8" on 175A and 250A.

| Breaker amps | Poles | Voltage rating | Frequency rating | Width (inches) | OutBack number | MidNite Solar # | Generic number | Item code | Price |
|--------------|-------|----------------|------------------|----------------|-------------------------|-----------------|----------------|-----------|-------|
| 1 | 1 | 150 | AC/DC | 0.75 | OBB-1-150VDC120VAC-PNL | | LELK1-1 | 030-04350 | \$25 |
| 5 | 1 | 150 | AC/DC | 0.75 | OBB-5-150VDC120VAC-PNL | | LELK1-5 | 030-04349 | \$25 |
| 10 | 1 | 150 | AC/DC | 0.75 | OBB-10-150VDC120VAC-PNL | | LELK1-10 | 030-04348 | \$25 |
| 15 | 1 | 150 | AC/DC | 0.75 | OBB-15-150VDC120VAC-PNL | | LELK1-15 | 030-04344 | \$25 |
| 20 | 1 | 150 | AC/DC | 0.75 | OBB-20-150VDC120VAC-PNL | | LELK1-20 | 030-04347 | \$25 |
| 30 | 1 | 150 | AC/DC | 0.75 | OBB-30-150VDC120VAC-PNL | | LELK1-30 | 030-04341 | \$25 |
| 40 | 1 | 150 | AC/DC | 0.75 | OBB-40-150VDC120VAC-PNL | | LELK1-40 | 030-04338 | \$25 |
| 50 | 1 | 150 | AC/DC | 0.75 | OBB-50-150VDC120VAC-PNL | | LELK1-50 | 030-04337 | \$25 |
| 60 | 1 | 150 | AC/DC | 0.75 | OBB-60-150VDC120VAC-PNL | | LELK1-60 | 030-04335 | \$25 |
| 70 | 1 | 150 | DC | 0.75 | OBB-70-150VDC-PNL | MNEDC70 | | 030-04334 | \$25 |
| 80 | 1 | 150 | DC | 0.75 | OBB-80-150VDC-PNL | MNEDC80 | | 030-04333 | \$25 |
| 100 | 1 | 150 | DC | 1 | OBB-100-150VDC-PNL | | | 030-04332 | \$59 |
| 125 | 1 | 150 | DC | 1 | OBB-125-150VDC-PNL | MNEDC125 | | 030-04331 | \$59 |
| 175 | 1 | 150 | DC | 1.5 | OBB-175-150VDC-PNL | MNEDC175 | | 030-04329 | \$129 |
| 250 | 1 | 150 | DC | 1.5 | OBB-250-150VDC-PNL | MNEDC250 | | 030-04326 | \$129 |



Panel mount breakers with 1/4" stud terminals. One inch wide body. Ring terminals are required. Use these breakers for side knockouts of the Xantrex DC Disconnect, and in the Xantrex XW Distribution Panel. The 175A and 250A panel mount breakers for the Xantrex DC Disconnect are listed on the previous page with the DC disconnect.

Surface mount breakers with screw lug terminals. 125 VDC rated. 10,000A interrupting current for direct connection to a battery. One inch wide body. Mounting feet allow them to be bolted to the back panel in an enclosure. Use these breakers in the Xantrex XW Distribution Panel, and for custom DC control panels.

| Amps | Part # | Volts | Item code | Price | Panel mount breakers | Amps | Part # | Item code | Price | Surface mount breakers |
|------|----------|-------|-----------|-------|----------------------|------|--------|-----------|-------|------------------------|
| 10 | CD10-PM | 125 | 053-01010 | \$25 | | 10 | CF-10 | 053-01011 | \$25 | |
| 15 | CD15-PM | 125 | 053-01015 | \$25 | | 15 | CF-15 | 053-01016 | \$25 | |
| 20 | CD20-PM | 125 | 053-01020 | \$25 | | 20 | CF-20 | 053-01021 | \$25 | |
| 30 | CD30-PM | 125 | 053-01025 | \$25 | | 30 | CF-30 | 053-01026 | \$25 | |
| 50 | CD50-PM | 125 | 053-01030 | \$25 | | 50 | CF-50 | 053-01031 | \$25 | |
| 60 | CD60-PM | 125 | 053-01035 | \$35 | | 60 | CF-60 | 053-01036 | \$35 | |
| 60 | CD-60-PX | 160 | 030-01192 | \$25 | | 75 | CF-75 | 053-01041 | \$35 | |
| 75 | CD75-PM | 125 | 053-01040 | \$35 | | 100 | CF-100 | 053-01051 | \$39 | |
| 80 | CD80-PM | 125 | 030-01189 | \$29 | | 110 | CF-110 | 053-01051 | \$39 | |
| 100 | CD100-PM | 125 | 053-01050 | \$39 | | | | | | |