



Retail Price list December, 2007

NOTE: ALL E-PANELS HAVE SWITCHED TO LEFT HAND HINGE AS THE STANDARD

E-Panel, OutBack version **ETL listed for the US and Canada**



Model No.	Price	Description	shipping Size and Weight
MNE125ST-L	\$439	Gray steel with 125a/125 VDC inverter breaker	14 X 12 X 28" 28 Lb.
MNE175ST-L	\$479	Gray steel with 175a/125 VDC inverter breaker	14 X 12 X 28" 29 Lb.
MNE250ST-L	\$479	Gray steel with 250a/125 VDC inverter breaker	14 X 12 X 28" 29 Lb.
MNE125AL-L	\$479	White Alum with 125a/125VDC inverter breaker	14 X 12 X 28" 19 Lb.
MNE175AL-L	\$519	White Alum with 175a/125VDC inverter breaker	14 X 12 X 28" 20 Lb.
MNE250AL-L	\$519	White Alum with 250a/125VDC inverter breaker	14 X 12 X 28" 20 Lb.
*MNE175STS-L	\$549	Stretched Gray steel with 175a/125VDC breaker	18 X 11 X 28" 39 Lb.
*MNE250STS-L	\$549	Stretched Gray steel with 250a/125VDC breaker	18 X 11 X 28" 39 Lb.

* Preferred E-Panels

MNERIGHTdoorST \$59 Gray Steel RH door with LH Chrg Cntrl Brkt for narrow OB chassis

MNERIGHTdoorAL \$65 Wht Alum RH door with LH Chrg Cntrl Brkt for narrow OB chassis



Note: For E-Panels built as Right hand units, add a "-R" to the end of the model number instead of the -L. Right Hand versions have the hinge on the right, circuit breakers on the right and charge control bracket on the left



Note: The Stretched version (STS) utilizes the Magnum sized chassis to provide 5" additional wiring room and includes more wiring friendly AC&DC bus bars. Each bus bar has 14 set screw connection points, (no ring terminals required)

Note: To accommodate two panel mount breakers (such as our 80 amp) on the opposite side from the din rail breakers, add -APOLLO as a suffix to the part number. Example: MNE250STS-L-APOLLO

Top picture: narrow OutBack gray steel shown as it comes with all the parts

Middle picture: Stretched OutBack shown with the OutBack surge arrester for grid tie applications

Bottom picture: Stretched OutBack gray steel shown as it comes with all the parts

For further info, See "E-Panels Explained at www.midnitesolar.com

E-Panel Lite, for use with SW, DR, RS etc. (Same size as OutBack narrow)

MNE125LT	\$419	Gray steel with 125a/125VDC inverter breaker	14 X 12 X 28" 22 Lb.
MNE175LT	\$459	Gray steel with 175a/125VDC inverter breaker	14 X 12 X 28" 22 Lb.
MNE250LT	\$459	Gray steel with 250a/125VDC inverter breaker	14 X 12 X 28" 22 Lb.
MNE125ALT	\$459	White Alum with 125a/125VDC inverter breaker	14 X 12 X 28" 15 Lb.
MNE175ALT	\$499	White Alum with 175a/125VDC inverter breaker	14 X 12 X 28" 15 Lb.
MNE250ALT	\$499	White Alum with 250a/125VDC inverter breaker	14 X 12 X 28" 15 Lb.

Note: all Lite's come with a LH 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. **ETL listed for the US and Canada**

E-Panel, Magnum version **ETL listed for the US and Canada**



Model Number	Price	Description	shipping Size and Weight
MNE175STM-L	\$549	Gray steel with 175a/125VDC inverter breaker	18 X 11 X 28" 39 Lb.
MNE250STM-L	\$549	Gray steel with 250a breaker for MS4024/ MS2812	18 X 11 X 28" 39 Lb.
MNERightdoorSTM	\$59	Gray Steel right hand hinge door with LH Chg Cntrl Brkt for wide chassis	

As shown, the Magnum E-Panel comes with inverter breaker, 2/0 inverter cables, pre-wired AC input and bypass, 500 amp 50mV shunt, AC terminal blocks, DC positive and DC negative bus bars, PV input bus bar, din rails, Ground bus bar, DC wiring cover, top shield, remote display mounting bracket, wall mounting brackets, charge controller bracket and lots of hardware and grommets.

E-Panel, Magnum AE version 120/240VAC **ETL listed for the US and Canada**

MNE175STM-L-240	\$799	White steel for 120/240VAC in & out for MS4448-AE	18 x 11 x 28" 42 Lb.
MNE250STM-L-240	\$799	White steel for 120/240VAC in & out for MS4024-AE	18 x 11 x 28" 42 Lb.



The 120/240 E-Panels come with features above plus terminal bus bars for 120/240VAC input and output



Mini – DC Disconnect Power Center with inverter breaker and din rail

MNDC125	\$205	White alum with 125a/125VDC breaker	10 X 5 X 18" 7 Lb.
MNDC175	\$235	White alum chassis with 175a/125VDC breaker	10 X 5 X 18" 7 Lb.
MNDC250	\$235	White alum chassis with 250a/125VDC breaker	10 X 5 X 18" 7 Lb.

Note: Add -Left to model for left hand breaker placement (DR inverters)

ETL listed for US and Canada

MNPV Combiners **ETL listed for the US and Canada up to 3/12 pitch**

MNPV6 \$109 Gray alum rainproof enclosure with insulating dead front, will accept six 150VDC breakers or 4 600VDC touch safe fuse holders. Includes 14 position PV negative bus bar, 14 position ground bus bar, 120 amp Plus bus bar for breakers and 60 amp bus bar for fuses Boxed size: 9" x 14" x 4" weight: 4 Lbs.

MNPV3 \$89 Gray alum rainproof enclosure without deadfront, will accept three 150VDC (MNEPV) breakers. Includes a 60 amp plus bus bar, 6 position PV negative bus bar and a 6 position ground bus bar. 11" x 5" x 4" 2lbs.

Baby Box enclosure for 1-4 MNEPV or MNEAC din rail breakers

General use enclosure for retrofits, small inverter disconnect, PV disconnect, AC or DC distribution or? Used all around the world. 3/4" & 1" knockouts each end. Price \$36.00 boxed: 3" x 3" x 7" 2 Lbs.

Dual 50 amp 240VAC Transfer Switch in a small box

Non-listed due to small size. 8AWG max Price \$109.00 3"x3"x7" box with 1" KO in each end 2 Lbs.

Options for E-Panels, MNDC, PV Combiners and Baby Box

MNEPV series din rail mount breakers \$13.00 150VDC din rail mount breaker (13mm wide) <1 Lb. Part number example: MNEPV15

Always in stock: 1,2,3,4,5,6,7,8,9,10,12,15,20,30,40,50,63 amps

MNEPV breakers are the same as CBI QY breakers available elsewhere except ours are 150VDC!

150VDC ETL listed in the US and Canada

MNDC-GFP \$69 63 amp 150VDC DC ground fault protector (UL listed breaker assy) 3 Lb.

150VDC ETL listed in the US and Canada

MNEAC10, 15, 20 \$15 15-60 amp 120VAC UL489A din rail mount (13mm wide) <1 Lb.

MNEAC30, 40, 50, 60 \$15 15-60 amp 120VAC UL1077 din rail mount (13mm wide) <1 Lb.

Note: UL489A is the branch circuit rating, UL1077 is for supplementary protection

Not so standard breakers for field use, but are installed at the factory in MidNite products

(Protrusion through the panel is shorter than the black breakers)

MNEAC15QZD white 15 amp 277VAC UL1077 single pole \$15.00

MNEAC30QZD white 30 amp 277VAC UL1077 single pole \$15.00

MNEAC50QZD white 50 amp 277VAC UL1077 single pole \$15.00

MNEAC30QZD2P white 30 amp 277VAC UL1077 double pole \$30.00

MNEAC50QZD2P white 50 amp 277VAC UL1077 double pole \$30.00

MNEAC30QZD3P white or black 30 amp 277VAC UL1077 triple pole \$54 1.5" wide

MNEAC50QZD3P white or black 50 amp 277VAC UL1077 triple pole \$54 1.5" wide

MNEDC80 \$20 80 amp 125VDC Panel Mount. 1/4" studs / 3/4" wide <1 Lb.

This is the same as the OBDC panel mount breakers available elsewhere (comes with mounting screws)

MNEDC125 \$54 125amp 125VDC 1/4" studs / 1" wide panel mount 2 Lbs.

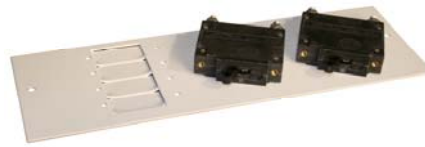
This is the same as OBDC panel mount breakers available elsewhere but with 1/4" studs (comes with mounting screws)

MNEDC175 & MNEDC250 \$109 125VDC 3/8" studs 1.5" wide panel mount 3 Lbs Same as OBDC's





Apollo kit



Apollo kit 240

Apollo kit (for T80 and higher amperage breakers): includes a left side bracket for all E-Panels, two 80 amp breakers and mounting hardware. Works with all E-Panels except the MNE174STM-240. \$69 2 Lbs.
Apollo kit 240 White side panel for 240 volt E-Panels and two 80 amp panel mount breakers with hardware \$69 2 Lbs.



Terminal Bus Bars

MNTBR (Red) Four 1/0 & eleven #6 useable wire slots. Comes with two sizes of 10-32 screws

MNTBW (White) Four 1/0 & eleven #6 useable wire slots. Comes with two sizes of 10-32 screws

MNTBB (Black) Four 1/0 & eleven #6 useable wire slots. Comes with two sizes of 10-32 screws

Bus Bar 4.63" UL and CSA recognized, Made in USA. Insulators ETL recognized, Designed by MidNite Solar and Made in China \$17.00 <1Lb. Remove the plastic insulators for ground bus applications.



Ground Bus Bar (model# MNGBB) 3.45" long with Green screws! Two 1/0 & seven #6 wire slots. Comes with mounting screws \$12.00 Made in USA, UL and CSA recognized < 1 Lb.



Short Bus Bar, Naked (model# MNSBBN)

2.3" long. Two 1/0 & four #6 wire slots. Comes with mounting screw & nut #10-32 x 7/8"

\$10.00 Made in USA, UL and CSA recognized <1Lb.



MNSBBR, MNSBBB, MNSBBW (Midnite Short Busbar) Shorter version of the insulated bus bars above. These are useful for PV+ input on the narrow OB E-Panel and for a separate PV- bus bar for charge controllers that require them. Four #6 and two 1/0 wire slots. \$15.00 <1 Lb.



Tin plated copper plate. .063" x 2.1" x 1.5" One 3/8", five .250, two .203" holes \$12.00 <1 Lb. Used on MNDC shunts for an additional bat minus connections.



Shunt 500amp/50mV includes taptite mounting screws 2 Lbs. \$29.00

Has two 8-32 tapped holes on one end to attach a bus bar. This is the industry standard shunt.



Shunt wire 36 inches long. Two twisted pair, one red & black, one blue & white Includes two ring terminals <1 Lb. \$12.00 Bogart Engineering recommends twisted wire.

Order the MNEPV2 2 amp breaker, shunt and wire to hook up the Trimetric to a MNDC175 or 250



MNTS Touch Safe Fuse Holder Ferraz USM1 1000VDC 30 amp Din rail mount \$13.00

Use in the MNPV6 combiner for high voltage string inverters <1 Lb.



MNATM6, 10 or 15 600VDC 6, 10 or 15 amp fuse to go with MNTS fuse holder \$13.00 <1Lb. Call for availability of other amperage.

MNBE-A \$375 Battery Enclosure with locking door. Holds three group 31 or 27 sealed batteries per shelf side by side or two per shelf end to end. Also holds one 8D per shelf. Two cabinets can be stacked horizontal or vertical for expansion. Remove middle shelf for taller batteries. 2" knock outs on top and sides. Gray powder coated steel. Ships knocked down.

Enclosure outside dimensions: 29" wide x 14.5" deep x 27.25" tall
Boxed size & weight: 30" x 32" x 7.5" 71 Lbs.

ETL listed for the US and Canada for indoor use only





MNBE-B \$575 Battery Enclosure with locking door. Holds eight group 31 or sealed golf cart sized batteries. Gray powder coated steel. Two cabinets can be stacked horizontal or vertical for expansion. Ships knocked down in two cartons.

ETL listed for the US and Canada for indoor use only

Enclosure size: 33.6" wide x 15.25" deep x 34.2" tall

Boxed size & weight: Box 1 of 2 Doors and Back 18" x 8" x 36" 40 Lbs.

Box 2 of 2 Sides, Top and Shelves 18" x 9" x 37" 62 Lbs.



MNBE-C \$849 Battery Enclosure with locking door. Holds twelve group 31 or sealed golf cart sized batteries and even the 14" tall PVX-3050T from Concorde. Gray powder coated steel. Two cabinets can be stacked horizontal for expansion.

Enclosure size: 36.5" wide x 16" deep x 55" tall/190 Lbs including pallet (freight truck only)

ETL listed for the US and Canada for indoor use only

Back Up Systems supplied with or without Magnum Energy Inverters



MNBE-C-175 WITH MAGNUM INVERTER



Flip down door



Customer built MNBE-C-250



<MNBE-C-175 built for battery back up Grid Tie Photo compliments on SunWize



Regular version has lots of breaker space



Grid/Gen version has an AC input transfer switch. This allows the customer to simply plug in a portable generator to re-charge batteries during a prolonged power outage. A 50 amp breaker is used on the utility position and a 15 amp is used on the generator position.

Pre-wired Power Back Up Systems in B&C series cabinets



Here's Tom and Robin proudly displaying their latest craftsmanship. These Power Back Up systems are available as shown in the C sized cabinet as well as our smaller B size. The C size can accommodate up to 300 amp hours of AGM batteries at 48VDC. That is actually a pretty substantial battery bank for a power back up or grid tie system. These systems come with or without Magnum Energy inverters and can be configured outside of MidNite for the OutBack Grid tie and MX60 as well. Magnum inverters can be installed by Midnite for additional cost.

Standard features:

- 175 or 250 amp breaker with 2/0 inverter DC cables that fit either Magnum or OutBack inverters.
- AC ground bus bar
- AC input and output terminal blocks for field wiring connections
- GFCI outlet and associated 15 amp breaker wired
- Two 15 amp and one 20 amp load circuit breakers wired
- 50 amp AC breakers wired with 8AWG wire. (AC input disconnect and AC bypass switch)
- Bus bar on battery disconnect breaker for connecting two parallel strings of batteries
- 500 amp/50mV shunt for connection of battery and inverter negatives with bat negative busbar.
- Long bolt on shunt to accommodate multiple lugs
- AC inlet for portable generator (Leviton #5278C) recessed power inlet module on **gen/grid models**
- 50 amp utility/15 amp generator transfer switch on **gen/grid models**
- Knockout spaces for four additional AC or DC breakers on **regular version**
- Mounting hardware for Magnum or OutBack inverter
- keyed lock supplied for door (keeps unauthorized people out)
- Dual hinged doors with recessed handle on right hand door.
- Flip down panel to conceal circuit breakers from view
- 2" side knock outs to accommodate additional battery enclosures side by side
- B cabinet has one shelf for batteries and C cabinet has two shelves

ETL listed for the US and Canada for indoor use only

Models with generator transfer switch:

"B" cabinet Models: **MNBE-B-175 Gen/Grid** or **MNBE-B-250 Gen/Grid** \$2449.00 list

"C" cabinet Models: **MNBE-C-175 Gen/Grid** or **MNBE-C-250 Gen/Grid** \$2329.00 list

Regular models without transfer switch, but with extra breaker knock outs

"B" cabinet Models: **MNBE-B-175 Regular** or **MNBE-B-250 Regular** \$2349.00 list

"C" cabinet Models: **MNBE-C-175 Regular** or **MNBE-C-250 Regular** \$2229.00 list

Back Up Kit \$359 list

This kit allows an installer or do-it yourselfer a chance to get into a battery backed up power system at a very modest price. The kit includes all of the following:

Battery breaker (175 or 250 amp), 50 amp AC bypass assembly, 50 amp AC input breaker, two 15 amp load circuit breakers, Din rail support, breaker cover plate, AC terminal blocks, hardware and instructions. Use with MNBE-B or C battery enclosure purchased separately.



Available Now!

MNBE-ASYS1 Complete Pre-wired and tested **Power Back Up System**

Includes: MNBE-A cabinet, MNE175STM E-Panel, MS4024 4000W Magnum Energy Sine Wave inverter/charger, ME-RC50 remote, two 15 amp and one 20 amp load breakers, Battery cables for four group 31 batteries, 14" long interconnecting conduit. Batteries not included. \$4429.00 Ships on pallet, freight only. 230 Lbs. This is very popular for dentist and doctor office back up.

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New products now available



MNE175STM-240 and MNE250STM-240 (\$799.00 list)

This newest addition to the MidNite E-Panel family are destined to become extremely popular items. They are meant to be paired with the new Magnum Energy MS4448-AE and MS4024-AE sine wave inverter/chargers. The inverter features a true 120/240 input and output. This means you no longer need two inverters to fully utilize your 240V generator. It also provides 120/240V operation without the need for transformers or a second inverter. The E-Panel also has a separate PV input terminal block that provides a place to tie in your PV input breaker, PV input and a PV lightning arrester. There is also a terminal busbar for the battery plus as well as battery minus. No more need for ring terminals for these hook ups. One of the best features of the MidNite E-Panels is the ability to complete much of the installation wiring right in the shop while the E-Panel is on the bench. You can connect your PV controller breakers, lightning arrestors, battery status monitor, DC load circuits and AC load circuits prior to heading out to the job site. This greatly reduces the chance of forgetting something in a location that is usually far away from the nearest store. Magnum also now has the ME BMK battery status monitor available (\$159 list). **The bottom line is that the AE series inverter and the MNE175/250STM-240 E-Panel will save you thousands of dollars and lots of time!!!**

Designed for the Hawaii environment, but available now to all.

The E-Panel Plus

This **aluminum** version of the stretched OutBack E-Panel has a special door that also holds an MX60 or a MiDNite Classic. This configuration also accommodates the OutBack surge arrester for grid tie installations. Call for further info and pricing.

