MIDNITE SOLAR INC.

120 VAC OUTBACK E-PANEL

The 120 VAC OUTBACK PLUS E-PANEL was designed to provide the additional components necessary to create a code compliant system. This combination is now the standard off-grid system offered by many North American professional Solar installers. Our E-Panels are a compact, affordable and professional panel for mounting a single inverter.

Over-current disconnects are an essential part of every RE system. Renewable energy circuit breakers are not normally stocked at your average electrical supply company. These breakers are custom manufactured to insure systems have the proper protection for the many different AC & DC circuits involved. The Midnite E-Panel integrates high voltage PV input, charge controller outputs, inverter over current protection, DC load circuits, AC input disconnect, AC input/output bypass, AC load circuits, DC-GFP circuit, wind turbine input circuit and hydro input circuits. Traditional electrical supply companies do not stock this type of product.

PRODUCT FEATURES

- Small size compared to existing disconnect and over current solutions
- Pre-wired to save time, money and complexity. All field wiring connections clearly labeled
- White powder coated aluminum
- Three slots for ¾" wide panel mount breakers like the MNEDC80
- Easily expands to accommodate additional inverters
- Six slots for ½" wide din rail mount breakers like the MNEPV63
- Pre-wired 50 amp 277VAC rated Inverter AC bypass switch
- Pre-wired 50 amp 277VAC rated AC Input disconnect
- Bus bars for Battery Plus, Battery Minus, Ground, PV+, PV-, AC hot in, AC hot out, Neutral
- Mounting hardware for Inverter and charge controller
- Mounting brackets for hanging E-Panel on wall
- ETL listed to UL and Canadian standards
- Standard Left hand hinged door to mount inverter
- Knockouts for AC and DC conduits
- Charge controller mounts on the door with inverter
- Cut outs for one GFCI outlet
- DC Inverter Battery breaker 125A, 175A, or 250A
- Internal inverter cables
- 500 A shunt
- Accommodates lightning/surge arrestors from Midnite, Outback and others.

* **COMPACT:** Smaller size takes up less wall space
* **MORE SLOTS:** Six din rail and three panel mount breaker slots for PV, Wind, Hydro and AC or DC distribution.
* **HARDWARE:** Hardware included for inverter, charge controller, wall mounting brackets, remotes GFCI's, DC-GFP's etc.
* **AGENCY APPROVALS:** ETL listed to US and Canadian standards and NEC compliance eases Electrical inspector concerns
* **INVERTER:** Inverter battery breaker and inverter cables included
* **PREWIRED:** AC input output and bypass assembly pre-wired. Battery Plus bus pre-wired. AC, DC, and PV bus bars installed

Made in the USA!

www.midnitesolar.com
19115 - 62nd Ave. NE., Arlington, WA. 360-403-7207

MIDNITE SOLAR INC.

120 VAC OUTBACKE-PANEL

Model Number Code

MNE***250***AL-PLUS - DC Inverter breaker size
MNE250***AL***-PLUS - Aluminum
MNE250AL-***PLUS*** **-** Version of Outback
MNE250AL-PLUS-***E*** - Export wiring colors brown & blue
Note: Leave off the "E" for North America (120VAC)

Model No.

MNE125AL-PLUS	FX3048T, VFX3648, GTFX3048, GVFX3648
MNE175AL-PLUS	FX3048T, VFX3648, GTFX3048, GVFX3648, FX2524T, GTFX2524T
MNE250AL-PLUS	FX2012T, VFX2812, VFX3524, GVFX3524
MNE125AL-PLUS-E	FX2348E, VFX3048E
MNE175AL-PLUS-E	FX2348ET, VFX3048ET, FX2024ET
MNE250AL-PLUS	FX2012ET, VFX2612ET, VFX3024ET

Circuit breakers available to customize your system:

CHARGE CONTROLLER BREAKERS
DINRAIL:
MNEPV 40, 50 & 63 - 150 VDC
MNEPV 50-300 - 300 VDC
PANEL MOUNT:
MNEDC 60, 70, 80, 90, & 100 – 125 VDC
DC-GFP ASSEMBLIES
MNDC-GFP63 Dinrail 150 VDC
MNDC-GFP50-300 Dinrail 300 VDC
MNDC-GFP80 Dinrail 125 VDC
DC LOAD/PV COMBINER BREAKERS
MNEPV 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 30, 40, 50, 63 150 VDC Dinrail
MNEPV 07, 10, 12, 15, 20, 30, 50–300 VDC Dinrail
AC LOAD BREAKERS
SINGLE POLE 120 VAC: 10, 15, 20 Amp
SINGLE POLE 120-277 VAC: 30, 40, 50, 60 Amp
TWO POLE 120/240 VAC 20, 30, 50, 60
*NOTE: See current price list for individual part numbers

KEEPING JOBS IN
AMERICA!

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