



120 VAC OUTBACK E-Panel

M I D N I T E S O L A R

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 and battery backup grid tie system offered by many North American professional Solar installers.

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 ensure 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, nor the components required to assemble an RE system.



- * **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



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M I D N I T E S O L A R

120 VAC OUTBACK PLUS E-PANEL

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.



Model Number Code:

MNE175 AL PLUS version of OutBack.....E
 Midnite E-Panel DC Inverter breaker Aluminum Plus 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-E	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 7, 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*

