

# The Outback Plus

## 120 VAC E-Panel

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. Our **Pre-wired Plus** e-panels utilize the Classic MPPT Charge Controller with arc-fault protection.



- \* **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 - no ACA or DCA conduit adaptors required
- \* **PREWIRED:** AC input/output and bypass assembly pre-wired. Battery Plus bus pre-wired. AC, DC, and PV bus bars installed

10-059-1



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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.



**Pre-wired version shown**

### Model Number Code:

MNE .....175 ..... 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 – 150 VDC

### DC-GFP ASSEMBLIES

MNDC-GFP63 Dinrail 150 VDC  
MNDC-GFP50-300 Dinrail 300 VDC  
MNDC-GFP80 Panel Mount 150 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*

