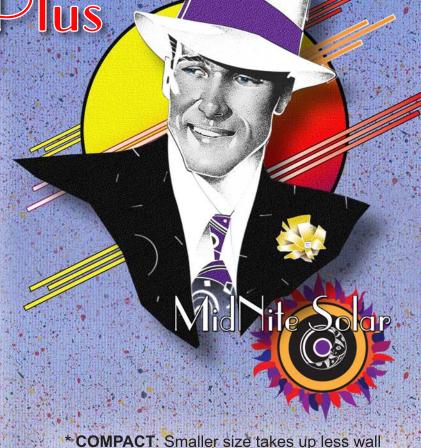
The utback Plus
120 VAC E-Panel

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 GFCl'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



www.midnitesolar.com

MIDNITE SOLAR

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 3/4" 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:

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

