



**The 120 VAC MAGNUM 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.



- \* **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



*Been mooned lately?*



## 120 VAC MAGNUM 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 or standard gray powder coated steel
- 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 - Right hand optional
- Knockouts for AC and DC conduits
- Charge control brackets (CCB) & 1" close nipple
- Cut outs for one GFCI outlet
- DC Inverter Battery breaker 125A, 175A, or 250A
- Internal inverter cables



### Model Number Code:

MNE .....1 75 ..... ST or AL ..... M ..... L .....E

MidNite E-Panel      DC Inverter breaker      Steel or Aluminum      Magnum      Left or Right      Export wiring colors brown & blue

*Note: Leave off the "E" for North America (120VAC)*

Model No.	Sinewave Inverters	Modified Inverters
MNE250STM	MS2012, MS2812, MS4024	RD3924, RD4024E, MS4124E
MNE250ALM	MS2023, MS2812, MS4024	RD3924, RD2212

*\* Note: MNE250STM and MNE250ALM can be used with all eleven inverters*

MNE175STM      RD1824, RD2824, RD2624E

MNE175ALM      RD1824, RD2824, MS2712E

*\* Note: MNE175STM and MNE175ALM can be used with all six inverters*

*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*

