

# 120/240 VAC MAGNUM E-Panel



The **120/240 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.

## PRODUCT FEATURES

- Selectable charging modes
  - 20A charger with 10A load control
  - 30A charger without load control
- Bulk, Absorb, Float, and Equalize (user adjustable)
- 0 to 100% PWM, no relays, no fans, no external heat-sink
- Clear UV stabilized polycarbonate housing; rain and bug proof
- 12V/24V Flooded, GEL, AGM battery supported
- Reverse polarity protected
- Auto resetting over-current protection
- Auto resetting over-temperature protection
- 8 position switch for main charger settings
- 16 position rotary switch for lighting controller
- Four LEDs for Bulk, Float, Load On and Low Battery
- Patterned blinking LEDs provide feedback about fault conditions
- Highly customizable lighting controller (dusk-dawn, hourly, day, night, etc.)
- Field repairable printed circuit board (by a qualified technician)
- Built in Arlington, WA USA



- \* **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!**

# 120/240 VAC MAGNUM E-Panel



## Model Number Code

MNE**250**STM - DC Inverter breaker size

MNE250**STM** - Steel

MNE250STM**M** - Magnum

MNE250STM**L** - Left or Right hand doors

MNE250STM**E** - 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
MNE175STM	RD1824, RD2824, RD2624E	

**Note:** MNE175STM can be used with all three 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



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AMERICA!**