

DATE:

PROJECT

COMMENTS:

FEATURES

- For powering incandescent, fluorescent, and LED fixtures
- True sinusoidal AC pulse width modulated (PWM) design provides clean 60Hz emergency output
- Universal 120/277VAC, 60Hz input/output
- Unit capacities up to 20W-55W
- "Soft Start" design reduces fixture inrush current
- Surface, recessed, or T-Grid mount models
- Lumen output from fixture is 100% of nominal
- UL listed 90 minute run-time
- Unique design eliminates compatibility problems with LED drivers as well as fluorescent ballasts
- Normally-ON and/or Normally-OFF load output
- Provisions for local switching capability — Always-ON during emergency conditions regardless of local switch position
- Temperature compensated, dual-mode charger includes low voltage disconnect feature to provide protection against battery deep discharge
- Maintenance-free, Lead-Calcium and premium grade Nickel-Cadmium battery models offered
- Control panel with momentary test switch, AC-ON, Charge-ON, and Inverter-ON LED indicators
- Battery circuit fuse protected
- Reverse battery and AC lockout protection



ORDERING INFORMATION *MPS-20-NC-V3-MB*

1. SERIES	2. VA RATING	3. BATTERY	4. I/O VOLTAGE	5. MOUNTING
MPS	-	-	V3	-
	20 20 W/VA 32 32 W/VA 35 35 W/VA 55 55 W/VA	LC Lead Calcium Battery NC Ni-Cad Battery Backup	V3 120/277V Input / Output	MB Back Mount MCG Ceiling Grid Mount MRW Recessed Wall

6. OPTIONS

BLANK = NO OPTION

RT Remote Diagnostic Status Display Panel

ORDERING NOTES

- LC only available on 32VA and 55VA versions
- NC only available on 20VA and 35VA versions

INPUT

- Input Voltages: 120 or 277VAC $\pm 10\%$
- Input Frequencies: 60Hz $\pm 2\%$
- Input Protection: Provided by Service Panel, Rated 20A max

OUTPUT

- Output Voltages: 120 or 277VAC (60Hz)
- Efficiency Rating: 98% at full rated load (line)
- Waveform: Sinusoidal (digitally controlled, PWM design)
- Static Voltage: $\pm 5\%$ during battery discharge. 0-100% linear load
- Output Frequencies: 60Hz. $\pm 0.3\text{Hz}$ during emergency cycle

- Output Distortion: $< 3\%$ THD (linear load)
- Transfer Time: Less than 1.0 second
- Load Power Factor Range: 0.44 Lead to 0.44 Lag
- Minimum Loading: 0% of rated system capacity
- Output Protection: Inverter fuse

NOTE

Due to power factor calculations, we recommend only loading the MPS inverter to 85% of load wattage/VA

APPROVALS

- UL924
- NFPA 101 Life Safety Code
- NEC
- OSHA

WARRANTY

- Isolite warrants the MPS Series electronics assembly against defects in material and workmanship for a period of 3 years. Isolite warrants the Lead Calcium batteries for 1 year full and 9 years pro-rata limited. For further details, refer to
- General Warranty and Obligations in the Isolite manual or on our website

DIMENSIONS
