EVENLITE
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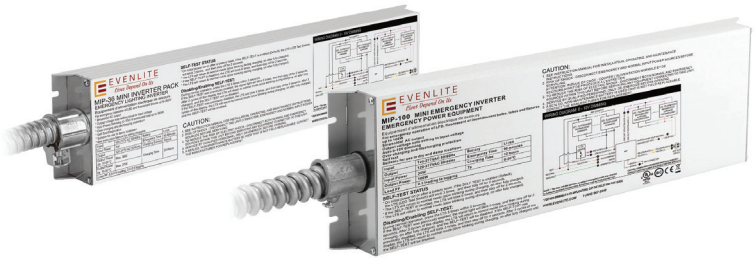
PROJECT NAME:	APPROVED BY:
CATALOG NO:	TYPE NO:

MIP - MINI INVERTER PACK

The Evenlite MIP is a refined, fully featured Emergency Lighting Inverter in a traditional compact power pack format for installation versatility, suitable for mounting within, on or remotely to the desired emergency luminaires. Available in both 36W and 100W models, the MIP caters to various lighting needs, from LED to Incandescent or Fluorescent loads. The MIP can be wired for Switched, Normally-On, Normally-Off, or the groundbreaking Adaptive Dimming feature. This patented Adaptive technology intelligently apportions the pack rating via 0 – 10V dimming of connected luminaires during emergency mode, ensuring optimal performance tailored to your specific requirements. With the Adaptive Dimming, the MIP can seamlessly handle a total pass-through load of 360W for the 36W model and 900W for the 100W model, providing unparalleled efficiency. Equipped with field-selectable Self-Test/Self-Diagnostics and automatic voltage select capabilities, the MIP is the ultimate choice for multi-luminaire setups or applications demanding high lumen outputs, such as high bays, wall packs, and floodlights.



Construction

- Slim and versatile extruded aluminum housing
- 21” lead wires with ½” flexible metallic conduit
- Suitable for use in plenum, damp and dry locations or grounded damp location rated luminaires
- Multi-function LED and Test Switch

Electrical

- Pure Sine Wave AC pulse width modulated (PWM) output
- Automatic Voltage Input/Output select 120-277VA 50/60Hz
- Adaptive 0 – 10V dimming of connected loads
- Universal 120/277 VAC, 60Hz. Input/output
- Field Selectable Self-Test/Self Diagnostics. Preprogrammed Scheduled Self-Test will occur after 24 hours and up to 7 days after initial power on. Monthly tests will occur every 30 days after initial power on
- Annual tests will occur every 52 weeks after initial power on
- Supports Switched, Normally-ON, Normally-OFF or Adaptive Dimming input wiring
- Remote Mounting Distance of up to 1,000 ft
- Long Life, high capacity, maintenance-free Lithium-ion battery provides required 90 minutes of emergency duration and environmentally friendly end of life recycling
- Over voltage, over current, inrush current limiting, over temperature, short circuit, and open circuit protections
- Zero current LVCO ensures positive charge acceptance following extended battery discharge
- Brownout sensing assures emergency illumination during periods of low line voltage
- Can be derated for FEMA 2 Hours emergency duration
- Efficiency Rating: 80% (MIP-36) & 84% (MIP-100)
- Rated current: 0.1A (MIP-36) & 0.48A @ 120V (MIP-100)
- Rated power: 7W (MIP-36) & 35W (MIP-100)
- Output Power: 36W (MIP-36) & 100W (MIP-100)
- Maximum Pass through: 360W (MIP-36) & 900W (MIP-100)
- Charging time: 24 hours (MIP-36) & 12 hours (MIP-100)
- Charging current: 0.34A (Max) (MIP-36) & 0.6A (MIP-100)
- Operating Temperature: 0-50C (32 – 122F)

Certification

- Tested and Listed by Underwriters Laboratories in compliance with UL924 and Canadian CSA-C22.2 No. 141-15
- UL924 listed for field installation
- California Title 20 Certified
- Meets or exceeds NFPA101 Life Safety Code, NFPA 70-NEC and OSHA requirements

Warranty

- 5 Year Limited Warranty – view complete terms online at www.evenlite.com/warranty/terms

ORDERING GUIDE – MIP

Example: MIP-36

Model	VA Rating
MIP – Mini Inverter Pack	**36** 36 Watts/VA **100** 100 Watts/VA
MIP	

Fill in fields from categories above and complete type and part number.

Type Number:	***Full Part Number:***

MIP - MINI INVERTER PACK

DIMENSIONS

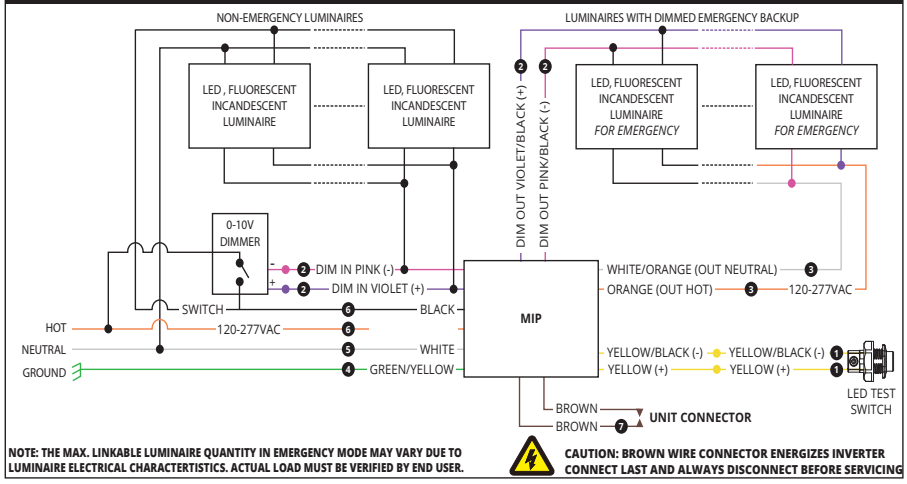
Model	Length	Width	Height	Mounting Center	Weight
MIP-36	13.54”	3.23”	1.18”	13.31”	3.0 lb.
MIP-100	13.63”	4.53”	1.63”	13.31”	5.6 lb.

Single Color (GREEN) LED Lamp Indicator shows the following status:

LTS Slow Blinking: Normal Charing
LTS ON: Battery Fully Charged (Normal Condition)
LTS OFF: Power Failure

LTS Gradual Change: In Testing Mode
LTS Quickly Blinking: Abnormal Condition – Corrective Action Required

TYPICAL WIRING DIAGRAM



The MIP inverter series features patented Adaptive Automatic dimming that allows for dimming of loads greater than the MIP’s rated output (36W or 100W) up to 360W (MIP-36) and 900W (MIP-100). All fixtures that exceed the MIP’s output rating (36W or 100W) must have 0-10VDC dimming capabilities to allow the Adaptive Automatic Dimming to function properly. If the MIP is being used for multiple fixtures all output wires including dimming from the MIP must be connected in series across all fixtures. For loads equal to or less than the output rating of the MIP (36W or 100W) 0-10VDC dimming is not required for proper function.

Adaptive Automatic Dimming Wiring for loads larger than MIP’s Output Rating

- The MIP inverter series features patented Adaptive Automatic dimming that allows for dimming of loads greater than the MIP’s rated output (36W or 100W) up to 360W (MIP-36) and 900W (MIP-100).
- All fixtures that exceed the MIP’s output rating (36W or 100W) must have 0-10VDC dimming capable drivers. Connection of the MIP’s output dimming wires (Purple/Black, Gray/Black wires) to the fixture is mandatory in all cases whether local dimming is required or not. Failure to connect the MIP’s output dimming wires (Purple/Black, Gray/Black) will result in a fault during emergency mode and the fixtures will not illuminate.
- If the MIP is being used for multiple fixtures, all output wires including dimming of the MIP must be connected in series across all fixtures.
- In the event of an emergency the MIP will automatically bypass any local switching or dimming and illuminate the loads to the packs maximum rated output of either 36W or 100W.

Wiring for loads equal or less than MIP’s Output Rating

- All loads that are equal to or less than the MIP’s rated output (36W or 100W) do not require connection of the dimming output wires (Purple/Black, Gray/Black) for proper function. Cap dimming wires if not used.
- The MIP’s dimming output wires (Purple/Black, Gray/Black) can be connected to the fixture if local dimming is required during utility mode.
- In the event of an emergency the MIP will automatically bypass any local switching or dimming and illuminate the connected load to full illumination not exceeding 36W or 100W.

Switched Operation Wiring

- Connect all wires from the inverter to the fixture following the diagram printed on the label. In this mode the fixture can be controlled by local switching/dimming during utility mode (On/Off), in the event of an emergency the inverter will bypass local switching/dimming and the fixture will illuminate at the inverters rated capacity (36W or 100W).

Normally-On Operation

- Connect the Black and Black/Orange wires of the pack to line Hot, all remaining wires from the inverter shall be connected to the fixture following the diagram printed on the inverter. In this mode the fixture will be in the “On” state during utility power, in the event of an emergency the fixture will continue to illuminate at the inverters rated capacity (36W or 100W).

Normally-Off Operation

- Cap the Black wire of the pack, all remaining wires from the inverter shall be connected to the fixture following the diagram printed on the inverter. In this mode the fixture will be in the “Off” state during utility power, in the event of an emergency the fixture will illuminate at the inverters rated capacity (36W or 100W).

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