



Mini Inverters Illuminator LVM & LV

WHY MYERS EPS?

Myers Emergency Power Systems (EPS) has a long history of engineering and manufacturing the highest quality and most reliable backup power solutions in the industry. Myers EPS' centralized and mini inverters provide emergency lighting and illuminate the path to safety during critical outages.

Advanced Technology

Designed with Myers EPS' advanced Pure Sine Wave technology, the mini inverters provide direct AC power and full illumination to all lighting sources. With industry-leading efficiencies, they run cool and reduce the overall operating costs of emergency lighting systems.

Unlimited Compatibility and Cost Savings

The efficient mini inverter products empower architects and engineers to fulfill emergency lighting requirements while using existing luminaires for interior and exterior egress. As the industry continues to move towards low wattage LED sustainable solutions, the low initial cost and substantial long-term savings is changing how specifiers and building owners view the mini inverter market, making mini inverters the emergency lighting solution of choice.



ADVANTAGES OF MYERS EPS MINI INVERTERS

Design Freedom

- ✓ Never compromise the design's intent or aesthetics
- ✓ Utilize existing luminaires for emergency lighting
- ✓ Eliminate bug-eyes and other unsightly products

Compatibility

- ✓ Compatible with all luminaire sources and fixtures
 - LED, Integral LED Based Lamps, Fluorescent, HID and Incandescent
- ✓ Accepts products with a power factor range of .5 lead to .5 lag

Pure Sine Wave Technology

- ✓ Designed to handle complex inrush current and high crest factor requirements from varying LED technologies
- ✓ Low harmonic distortion reduces heating effects in loads; < 3% THD
- ✓ Efficiencies up to 98% - Requires no fans and reduces energy consumption

Centralized Location

- ✓ Illuminate an entire building from a single location
- ✓ Save time and money by only needing to test in one location

Full Lumen Output

- ✓ All luminaires run at full lumen output during a power outage
- ✓ The photometric calculations are identical whether the unit is in normal or emergency use

Code Compliance

- ✓ Perfect for high ceilings and other installations where testing and logging can prove challenging
- ✓ Meets UL 924 and NFPA 101 requirements



THE BETTER INVESTMENT

Compare and Save

When comparing other emergency lighting solutions such as battery packs, inverters provide significant savings. Below outlines a typical commercial office with 22 lighting fixtures, showing the cost of ownership over 10 years. **When comparing the initial cost and overall maintenance, mini inverters provide building owners an estimated 47% in savings.**

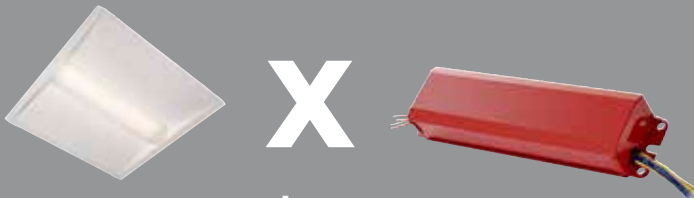


10-YEAR COST COMPARISON CALCULATION

BATTERY PACK

MINI INVERTER

INITIAL PURCHASE COST


$$22 \text{ fixtures} \times \$200 \text{ per battery} = \$4,400$$

Illuminator LV
= \$2,200



COST OF CODE COMPLIANCE TESTING

Battery Testing
12 monthly tests x 22 fixtures = 264 yearly tests at \$60/hourly labor* = \$15,840



Tests are conducted & documented **AUTOMATICALLY** = \$0
by the inverters

ANNUAL MAINTENANCE (other than testing)

= \$0

1 service visit per year to perform annual maintenance as suggested by Myers EPS
= \$1,000 / service trip x 10 years = \$10,000**

COST OF BATTERY REPLACEMENT

5-year life batteries (changed 2 times) =
44 batteries x \$200 = \$8,800 +
labor* at \$60/hr (\$1,320)
= \$10,120



10-year life batteries, change 3 batteries once = \$939 + DC capacitor at \$150
+ labor at \$1,000/day
= \$2,089

TOTAL COST OF 10-YEAR OWNERSHIP

\$30,360

\$14,289

47% SAVINGS
compared to battery packs



* Labor rates vary by region

** Annual maintenance is suggested by Myers EPS but not required

CRITICAL EMERGENCY

Patients can't wait for the average eight-second delay with generators. Myers EPS inverters utilize high frequency pulse width modulation technology for a guaranteed two-millisecond to ten-millisecond transfer time.

Specify Myers EPS when lives matter.



ILLUMINATES THE DARKEST OF TIMES



**Whatever the disaster,
Myers EPS has you covered!**



FEMA



| | LVM SERIES | | LV SERIES | | | |
|---------------------------------------|---|---|---|---|---|---|
| | 110VA | 225VA | 175VA | 350VA | 550VA | 750VA |
| DIMENSIONS | H: 14 3/4" W: 16 1/4" D: 4 1/4" | H: 23 1/4" W: 16 1/4" D: 4 1/4" | H: 17 3/4" W: 14 1/4" D: 6 1/2" | H: 22" W: 19" D: 9 1/4" | H: 22" W: 19" D: 9 1/4" | H: 22" W: 25 1/4" D: 9 1/4" |
| WEIGHT | 20 LBS. | 26 LBS. | 55 LBS. | 100 LBS. | 130 LBS. | 180 LBS. |
| INPUT VOLTAGE | 120V or 227VAC | 120V or 227VAC | Field Selected 120V or 227VAC | Field Selected 120V or 227VAC | Field Selected 120V or 227VAC | Field Selected 120V or 227VAC |
| OUTPUT VOLTAGE | 120V OR 227VAC | 120V OR 227VAC | Field Selected 120V or 227VAC | Field Selected 120V or 227VAC | Field Selected 120V or 227VAC | Field Selected 120V or 227VAC |
| PHASING | SINGLE | SINGLE | SINGLE | SINGLE | SINGLE | SINGLE |
| THREE-STAGE BATTERY CHARGER | * | * | * | * | * | * |
| CIRCUIT BREAKER PROTECTION (optional) | | | | * | * | * |
| INPUT FUSE PROTECTED ON AC | * | * | * | * | * | * |
| HARMONIC DISTORTION - VOLTAGE | <3% THD | <3% THD | <3% THD | <3% THD | <3% THD | <3% THD |
| LOAD POWER FACTOR | .5 lead to .5 lag | .5 lead to .5 lag | .5 lead to .5 lag | .5 lead to .5 lag | .5 lead to .5 lag | .5 lead to .5 lag |
| CREST FACTOR | 2.8 | 2.8 | 3.5 | 3.5 | 3.5 | 3.5 |
| BATTERY DISCONNECT | Fused - Quick disconnect terminal | Fused - Quick disconnect terminal | Fuse | Fuse | Fuse | Fuse |
| OPERATING TEMPERATURE | Inverter 32° - 104°F Battery 68° - 86°F | Inverter 32° - 104°F Battery 68° - 86°F | Inverter 32° - 104°F Battery 68° - 86°F | Inverter 32° - 104°F Battery 68° - 86°F | Inverter 32° - 104°F Battery 68° - 86°F | Inverter 32° - 104°F Battery 68° - 86°F |
| GENERATOR INPUT | Compatible with 10k VA or larger | Compatible with 10k VA or larger | Compatible with 25k VA or larger | Compatible with 25k VA or larger | Compatible with 25k VA or larger | Compatible with 25k VA or larger |
| INDICATOR LIGHTS AND SWITCH | AC present, charging, ready, inverter and test switch | AC present, charging, ready, inverter and test switch | Charge, ready, inverter & test switch | Charge, ready, inverter & test switch | Charge, ready, inverter & test switch | Charge, ready, inverter & test switch |
| OLED CONTROL PANEL (optional) | | | * | * | * | * |
| METERING (optional) | | | * | * | * | * |
| ALARMS (optional) | | | * | * | * | * |
| WARRANTY | 3/10, 3 year electronics Battery; 1 year full, 9 year prorated | 3/10, 3 year electronics Battery; 1 year full, 9 year prorated | 3/10, 3 year electronics Battery; 1 year full, 9 year prorated | 3/10, 3 year electronics Battery; 1 year full, 9 year prorated | 3/10, 3 year electronics Battery; 1 year full, 9 year prorated | 3/10, 3 year electronics Battery; 1 year full, 9 year prorated |
| OPTIONAL WARRNATIES | * | * | * | * | * | * |
| FACTORY START-UP | * | * | * | * | * | * |
| 5-YEAR SERVICE PLAN | * | * | * | * | * | * |
| ENCLOSURE COLOR OPTIONS | Red | Red | Red (standard), White, Grey, Black | Red (standard), White, Grey, Black | Red (standard), White, Grey, Black | Red (standard), White, Grey, Black |
| T-GRID INSTALL (white enclosure only) | * | * | * | | | |
| ADDITIONAL OPTIONS | | | | | | |
| FLOOR MOUNT | | | | * | * | * |
| FAST CHARGE (optional) | | | * | * | * | * |
| BACnet MS/TP | | | * | * | * | * |
| INFRARED REMOTE TEST | | | * | * | * | * |
| BATTERY STRAPPING | | | * | * | * | * |
| USB MASS STORAGE | | | * | * | * | * |
| RECESSED WALL MOUNT | * | * | * | | | |
| ZONE MONITORING | | | * | * | * | * |
| NYC APPROVED | | | * | * | * | * |
| 0-10V DIMMING (optional) | * | * | | | | |
| DIMMING RELAY | | | * | * | * | * |
| RUNTIME VS. OUTPUT (MINUTES /WATTS) | 120 / 80 180 / 55 240 / 45 | 120 / 175 180 / 120 240 / 95 | 120 / 135 180 / 95 240 / 75 | 120 / 275 180 / 200 240 / 150 | 120 / 450 180 / 325 240 / 225 | 120 / 575 180 / 425 240 / 300 |



MYERS
EMERGENCY POWER SYSTEMS

Specifications and dimensions are subject to change without notice.

Please contact your local Myers EPS representative for the most up-to-date information and product application support.

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