

LVU Series Inverter Power System

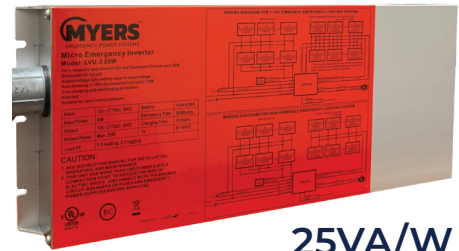


MICRO INVERTERS SINGLE PHASE SYSTEMS 25VA/W and 50VA/W

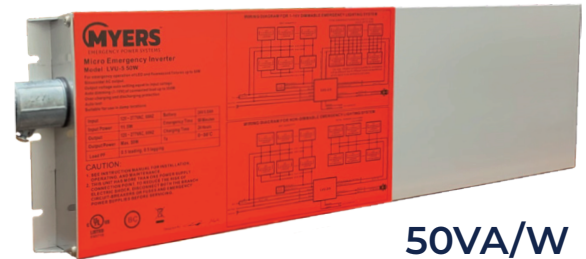
Designed with advanced Pure Sine Wave technology, these micro inverters provide direct AC power and full illumination to all lighting sources. With industry-leading efficiencies, they run cool and reduce the overall operating costs of emergency lighting systems.

The efficient micro inverter products empower architects and engineers to fulfill emergency lighting requirements while using existing lighting 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 micro inverter market. Micro inverters are the emergency lighting solution of choice.



25VA/W



50VA/W



FEMA

UL 924 Listed, Damp Location Rated, Plenum Rated,
CEC Title 20 Approved

FEATURES

- PWM/MOSFET Pure Sine Wave inverter technology
- Self-testing and self-diagnostics
- High crest factor and inrush capabilities
- Compatible with all light sources including LED, Fluorescent and Incandescent
- Ultra-wide power factor range from .5 leading to .5 lagging
- Remote Mount - No distance limitations depending on wattage and wire selected
- High efficiencies, runs cool, no fans required
- Output options Normally On, Normally Off or Switched
- Auto-selected input
- Indicator lights for charger, alarm function and test switch
- 5-Year warranty on all parts including batteries

Design Freedom	Stay Brighter, Longer	Labor Savings	Ideal Retrofit Solution
There is no need to compromise when it comes to the design intent and aesthetics of a space. Specifying existing luminaires for emergency lighting by wiring an inverter directly to it eliminates bug-eyes and other unsightly products.	When using micro inverters, all luminaires run at full lumen output during a power outage. Unlike battery packs, the photometric calculations are identical whether the unit is in normal or emergency use.	Automatic monthly and yearly testing saves thousands of dollars over the lifetime of an installation and keeps maintenance professionals from ever having to step foot on a ladder which reduces liability.	Stay up to code and out of sight. The Illuminator Series LVU micro inverters are fully compliant and listed under UL 924 and tie directly into existing fixtures.

LVU Series

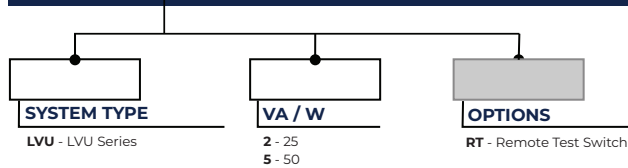
Single-Phase Inverter Power System

25VA/W & 50VA/W



ORDERING GUIDE

EXAMPLE MODEL # LVU-5-RT



Type
Date
Catalog #
Project
Prepared by
Comments

SPECIFICATIONS

LVU Series Power Rating		LVU-2 25W	LVU-5 50W
Dimensions		L: 13 1/4" W: 5 5/16" H: 1 3/8"	L: 20 3/4" W: 5 5/16" H: 1 3/8"
Weight		6 lbs	9.75 lbs
INPUT	Input Voltage	Auto-Selected 120VAC - 277VAC. 1-Phase 2-wire +10% -15%	
	Input Frequency	60Hz, +/- 3%	
	Max Input Rating	33VA	66VA
	Max Input Current	.028 amps at 120V or 0.12 amps at 277V	0.55 amps at 120V or 0.24 amps at 277V
	Harmonic Distortion - Voltage	< 10% THD (For resistive load)	
	Surge Protection	Per UL-924 Standard	
OUTPUT	Output Voltage	120VAC or 277VAC 1-phase 2-wire + ground (same as input feed)	
	Overload	Electronic current limit	
	Output Frequency	60Hz +/- .10Hz During emergency mode	
	Load Power Factor	.5 Lead to .5 lag	
	Inverter Overload	150% for 2 seconds, 115% continuously	
	Output Types	Normally-On, Normally-Off or Switched	
	Crest Factor	5	
	Auto Dimming	Automatically dims to maintain power output ¹	
BATTERY	Run Time	Standard 90-minute run time	
	Battery Type	Nickel Cadmium	
	Charger	Current limited charger based on battery specification (recharge time maximum 24HR)	
	Protection	Automatic low-battery disconnect; Automatic restart upon utility return	
ENVIRON- MENTAL	Disconnect	External Connector	
	Altitude	< 10,000 feet (above sea level) without derating	
	Operating Temperature	Inverter: 32° to 122°F (0° to 50°C); Battery: 32° to 122°F (0° to 50°C)	
	Storage Temperature	-4° to 158°F (-20° to 70°C) (Electronics only)	
GENERAL	Relative Humidity	< 95% (Non-condensing)	
	Design	Line interactive PWM inverter, high frequency switching technology with transfer time of 250ms	
	Generator Input	Compatible with generators (2.5kVA or larger)	
	Compatible Light Sources	LED, Fluorescent, Incandescent	
	Indicator Lights & Switch	Multi-function LED & Test switch	
PHYSICAL	Warranty	5 Year standard warranty on all parts including batteries	
	Case	Mechanical package with mounting flanges and two mounting holes on each end	
	Cooling	Convection cooled	
	Connection	36" Flexible conduit tail	
Agency Approval		UL 924: Fully compliant & listed under UL 924 (Emergency Lighting and Power Equipment); Damp Location Rated; Plenum Rated; CEC Title 20 Approved	

¹ If 0-10V dimming wires are connected, the unit automatically dims to maintain power output within rating.