



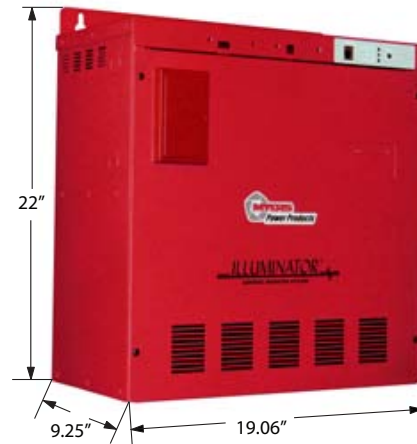
# Illuminator LV

## Emergency Lighting Inverter System

Single-Phase Emergency Lighting Systems: 175VA, 350VA, 550VA and 750VA



**175VA/W**  
(also available in Recessed and  
Grid Mount Enclosure)



**350 / 550VA/W**



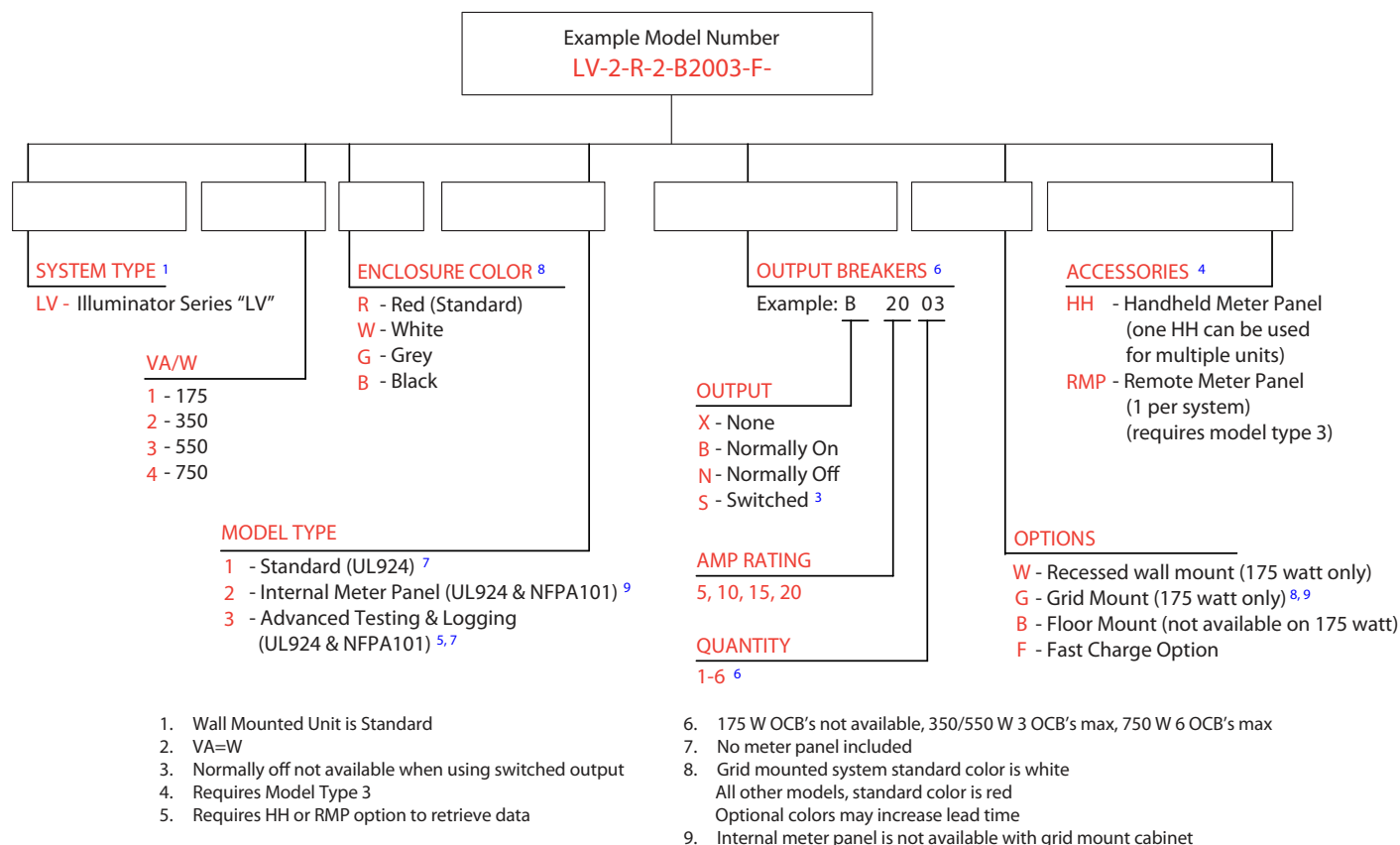
**750VA/W**

### STANDARD FEATURES

- PWM/MOSFET pure sine wave inverter technology
- High crest factor and inrush capabilities
- Red wall mount cabinet
- High efficiency; no fans required
- 3 stage battery charger extends battery life
- UL924 self testing and diagnostic
- Compatible with LED, HID, fluorescent, incandescent, quartz and electronic low voltage lighting
- Input Fuse and Battery Fuse protection
- System status indicators and momentary test switch
- Maintenance free VRLA batteries
- Microprocessor controlled
- UL924 listed
- Output Normally On and Switched or Normally Off (with 15 Minute Time Delay) output
- 120 volt input/output or 277 volt input/output (field selectable)
- Summary alarm Form C dry contacts
- NYC Approved

### OPTIONAL FEATURES

- Output circuit breakers available (see note 6 on ordering guide for available quantities)
- Grid and Recessed mount enclosures for 175VA system
- System Meter Panel with OLED Display provides access to system logs and programming
- External Meter panel available in recessed or hand held enclosures
- Alternate colors available; white, black and grey
- Enhanced metering system (Includes Input, Output Voltage and Current, Output VA, Battery Cycle Monitoring, Battery Current, Battery Voltage and Temperature)
- Variable time delayed Normally Off output (requires meter panel)
- Extended runtimes
- 12 HR Fast Recharge



## SPECIFICATIONS

<b>Input</b>	Voltage	120 or 277Vac 1-phase 2-wire +10% -15%
	Input Frequency	60Hz, +/-3%
	Synchronizing Slew Rate	1 Hz per second nominal
	Protection	Fuse
	Harmonic Distortion	< 10% (For Resistive Load)
<b>Output</b>	Voltage	120 or 277Vac 1-phase 2-wire
	Static Voltage	Load current change +/- 2%, battery discharge +/- 12.5%
	Dynamic Voltage	+/- 10% for load step change, recovery within 5 cycles
	Harmonic Distortion	< 3% THD for linear load
	Overload	Circuit Breaker protected (Optional)
	Output Frequency	60Hz +/- .05 Hz during emergency mode
	Load Power Factor	.5 lag to .5 lead
	Inverter Overload	250% for 16 Cycles, 110% continuously
	Output Types	Normally-On, Normally-Off or Switched
	Protection	Optional Distribution Circuit Breaker(s) (350, 550 and 750W)
<b>Battery</b>	Type	Valve-regulated sealed lead-calcium
	Charger	Micro controller, 3-stage charger (recharge per UL-924 Specifications)
	Protection	Automatic low-battery disconnect: automatic restart upon utility return
	Disconnect	Fuse
<b>Environmental</b>	Altitude	< 10,000 feet (above sea level) without derating
	Operating Temperature	Inverter: 0° to 40° C (32° to 104° F) Battery: 20° to 30° C (68° to 86° F) per UL-924
	Storage Temperature	-20° to 70° C (-40° to 158° F) (electronics only)
	Relative Humidity	< 95% (non-condensing)
<b>General</b>	Design	Line interactive PWM inverter type utilizing MOSFET technology with 2mS transfer time
	Generator Input	Compatible with generators. (25KVA or larger)
	Indicator Lights & Switch	Charging, Ready, Inverter and Test switch
	Optional Control Panel	OLED display with key pad controls/functions & scrolling system status
	Optional Metering	Input & Output Voltage, Battery Voltage, Battery & Output Current, Output VA, Input Current, Inverter Wattage
	Optional Alarms	Ambient/Battery/Heatsink Temperature, Input Frequency, UPS Time & Events, Days of Operation
	Alarm Contacts	Battery Charger Failure, Near Low Battery, Low Battery, Load Reduction Fault, High/Low AC Input Volts, High/Low AC Output Volts, High/Low Input Frequency, Output Overload, Output Short Circuit, High/Low Ambient Temperature, High/Low Battery Temperature, Heatsink Over Temperature, Battery & Battery Probe not connected.
	Warranty	Summary Fault Form "C"
	Optional Warranties	1 year standard warranty includes all parts. Up to 10 years prorated warranty on batteries
<b>Physical</b>	Cabinet	Extended warranties, Preventative Maintenance and/or Customized Service Plans.
	Cooling	
	Cable Entry	Wall Mount; Recess or T-Grid available only on 175W system
	Access	Convection Cooled
		Top or Side
		Front



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