



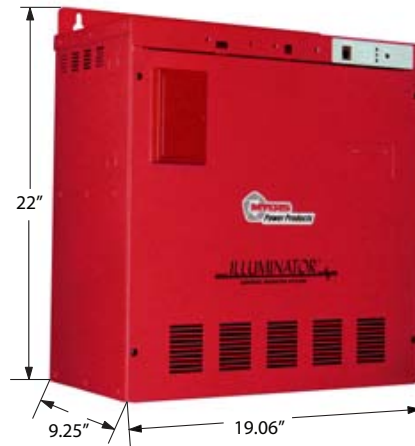
# ILLUMINATOR LV

## 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**

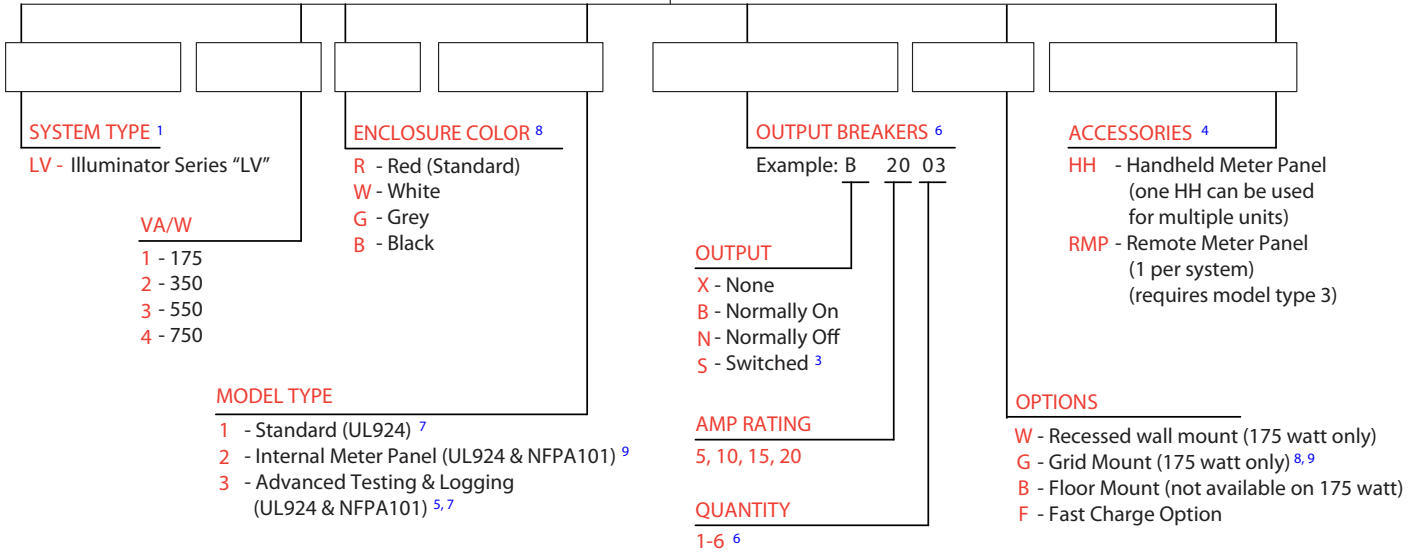
### STANDARD FEATURES

- 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

**Example Model Number**  
**LV-2-R-2-B2003-F-**



1. Wall Mounted Unit is Standard
2. VA=W
3. Normally off not available when using switched output
4. Requires Model Type 3
5. Requires HH or RMP option to retrieve data
6. 175 W OCB's not available, 350/550 W 3 OCB's max, 750 W 6 OCB's max
7. No meter panel included
8. Grid mounted system standard color is white  
All other models, standard color is red  
Optional colors may increase lead time
9. Internal meter panel is not available with grid mount cabinet

## SPECIFICATIONS

|                      |   |  |                 |  |   |
|----------------------|---|--|-----------------|--|---|
| <b>Input</b>         | Voltage<br>Input Frequency<br>Synchronizing Slew Rate<br>Protection<br>Harmonic Distortion<br>AIC Rating  | 120 or 277Vac 1-phase 2-wire +10% -15%<br>60Hz, +/-3%<br>1 Hz per second nominal<br>Fuse<br>< 10% (For Resistive Load)<br>10K @ 120 VAC, 5K @ 277 VAC  | <b>General</b>  | Design<br>Generator Input<br>Indicator Lights & Switch<br>Optional Control Panel | Line interactive PWM inverter type utilizing MOSFET technology with 2mS transfer time<br>Compatible with generators. (25KVA or larger)<br>Charging. Ready, Inverter and Test switch<br>OLED display with key pad controls/functions & scrolling system status<br>Input & Output Voltage, Battery Voltage, Battery & Output Current, Output VA, Input Current, Inverter Wattage<br>Ambient/Battery/Heatsink Temperature, Input Frequency, UPS Time & Events, Days of Operation |
| <b>Output</b>        | Voltage<br>Static Voltage<br>Dynamic Voltage<br>Harmonic Distortion<br>Overload<br>Output Frequency<br>Load Power Factor<br>Inverter Overload<br>Output Types<br>Protection<br>Crest Factor | 120 or 277Vac 1-phase 2-wire<br>Load current change +/- 2%, battery discharge +/- 12.5%<br>+/- 10% for load step change, recovery within 5 cycles<br>< 3% THD for linear load<br>Circuit Breaker protected (Optional)<br>60Hz +/- .05 Hz during emergency mode<br>.5 lag to .5 lead<br>250% for 16 Cycles, 110% continuously<br>Normally-On, Normally-Off or Switched<br>Optional Distribution Circuit Breaker(s) (350, 550 and 750W)<br>3.5 |                 | Optional Metering<br><br>Optional Alarms   | 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.   |
| <b>Battery</b>       | Type<br>Charger<br><br>Protection<br>Disconnect   | Valve-regulated sealed lead-calcium<br>Micro controller, 3-stage charger (recharge per UL-924 Specifications)<br>Automatic low-battery disconnect: automatic restart upon utility return<br>Fuse   |                 | Alarm Contacts<br>Warranty<br><br>Optional Warranties                            | Summary Fault Form "C"<br>1 year standard warranty includes all parts.<br>Up to 10 years prorated warranty on batteries<br>Extended warranties, Preventative Maintenance and/or Customized Service Plans.   |
| <b>Environmental</b> | Altitude<br><br>Operating Temperature<br><br>Storage Temperature<br>Relative Humidity   | < 10,000 feet (above sea level) without derating<br>Inverter: 0° to 40° C (32° to 104° F)<br>Battery: 20° to 30° C (68° to 86° F) per UL-924<br>-20° to 70° C (-40° to 158° F) (electronics only)<br>< 95% (non-condensing)  | <b>Physical</b> | Cabinet<br>Cooling<br>Cable Entry<br>Access                                      | Wall Mount; Recess or T-Grid available only on 175W system<br>Convection Cooled<br>Top or Side<br>Front   |



Tel: 610-868-3500 Fax: 610-868-8686  
www.myerspowerproducts.com