



VIGILANT

Emergency Lighting Inverter System



Inverter Systems, Inc.

WWW.INVERTERSYSTEMSINC.COM

SINGLE PHASE SYSTEMS 850 VA/W to 2400 VA/W For LED & Non-HID Lighting Loads



UL 924 Listed



Less than 1s
Transfer Time



NEC and NFPA
Life Safety
Code 101

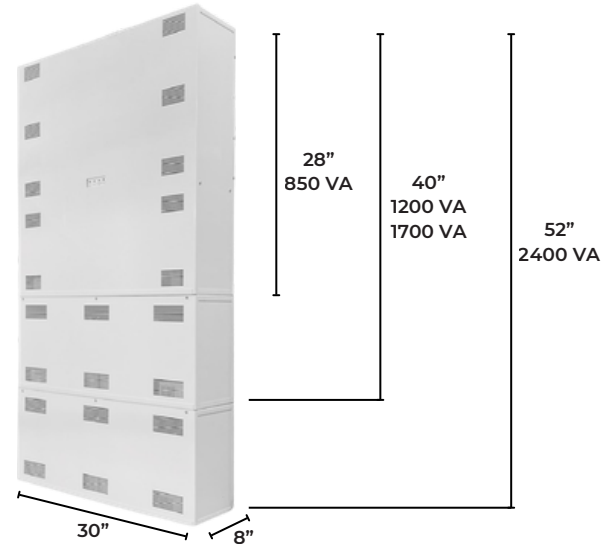


Buy
American Act
Compliant

The Vigilant Inverter Series is a single-phase emergency lighting inverter.

The system is a stand alone product designed to provide 120 or 277 volts 60 Hz line voltage to emergency lighting fixtures.

The sine wave output makes the Vigilant Series an ideal candidate for today's LED light sources. Unlike other products, there is no need to derate the Vigilant system for inrush currents. The robust design allows for 100% loading.



STANDARD FEATURES

- Pure sine wave 60 Hz output
- Operates loads of 0.9 leading to 0.9 lagging power factor
- No derating needed - Lamp watts can be used for sizing up to 100% of name plate capacity
- Emergency lights can be operated in 3 distinct modes;
 - (1) Always on;
 - (2) On only during a power failure, or
 - (3) Switched - All 3 modes are standard and field selectable
- Low Voltage Dimmer relay circuit
- High Inverter efficiency 88-94%
- Compact, easy wall mounting cabinets
- Sealed long life valve regulated lead acid (VRLA) batteries
- Operating temperature 68°F to 86°F (20°C to 30°C)
- Push button test switch
- Low voltage disconnect circuit LED indicators for AC On and High Charge

LOAD DIMMING

The ISI-VIG system offers a low voltage dimming output to allow emergency lights to operate at a dimmed state during a power failure as a standard feature. Four step, field selectable, output levels at 25%, 50%, or 75%.

DIAGNOSTICS

Internal bi-color LEDs can display a Low or High DC voltage, an Overload condition, or a High Temperature shutdown.

AGENCY APPROVALS

- ETL Listed to UL924.
- Meets or exceeds the requirements of the National Electrical Code and NFPA Life Safety Code 101.
- NYC approval number 41262.

WARRANTY

Two year electronics replacement warranty against component failure or manufacturing defects, and a 5 year pro-rata warranty on the batteries.

SPECIFICATIONS

- | | |
|---|--|
| • Input: 120 or 277 VAC $\pm 10\%$, 60 Hz | • Less than 1 second transfer time |
| • Output: 120 or 277 VAC $\pm 5\%$, 60 Hz | • Compatible with all Non-HID lighting Including LED Drivers |
| Distortion Less than 3% THD | • Generator Compatibility |
| Minimum load requirement 0% | • Standard 90-minute runtime |

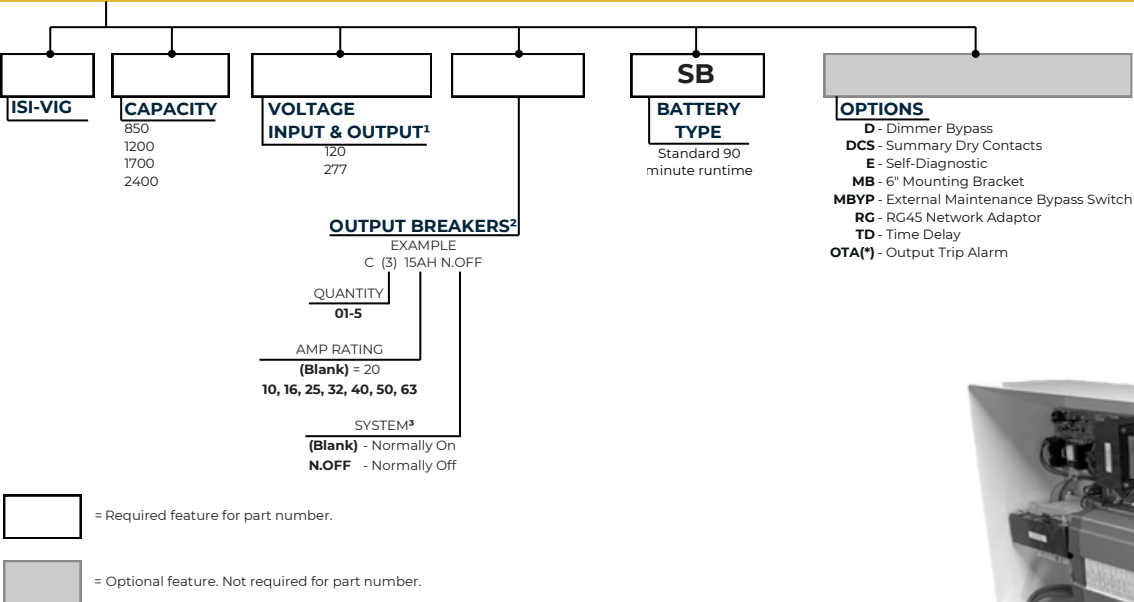
ISI VIGILANT SERIES

Emergency Lighting Inverter

Single Phase Systems 850 to 2400 VA/W



EXAMPLE MODEL # ISI-VIG-277-277-C(1)-SB



- 1. Standard input transformer on 277/120V. 277V output requires installation of 120/277V transformer internally.
- 2. Breakers are single pole only.
- 3. All the breakers on the rail must be normally-on or normally-off.
- 4. Standard battery runtime is 90 minutes. 120-minute run time is not available for 2400 VA systems.



OPEN PANEL VIEW

DIMENSIONS						Alternate runtimes may affect cabinet size - contact factory.	
Electronics Module			Batteries 90 Minutes @ Full Load				
Partial Model Number	Power Rating (KVA / W)	Efficiency (Typical Percent)	Cabinet Dimensions				
			Width (in / cm)	Height (in / cm)	Depth (in / cm)	Weight (lbs / kg)	No. of Battery Cabinets
ISI-VIG	850	94	30 /77	28 / 71.12	8 / 20.32	215 / 98	0
ISI-VIG	1200	94	30 /77	40 / 101.6	8 / 20.32	335 / 105	1
ISI-VIG	1700	94	30 /77	40 / 101.6	8 / 20.32	395 / 107	1
ISI-VIG	2400	94	30 /77	52 / 132.08	8 / 20.32	565 / 109	2