Si-250 & Si-250-PST

250 Watt Pure Sine Wave Self Testing Emergency Lighting Inverter with Optional Power Share Technology





Compatible with LED loads

Product Summary

Approvals	UL Listed to UI	_924
Input Voltage	Field Select-able 120 or 277 Vac input/0	Dutput
Input Current	2.7A (120 Vac), 1.2 A (277	'Vac)
Input Frequency	/ 6	0 Hz
Power Factor	0.5 Leading to 0.5 Lag	ging
Output	120-277 Vac, 6	0 Hz
Output Current	2.0 A (120 Vac), 0.9A (27	7 Vac)
Output Power		50 W
Output voltage re	egulation in emergency +/	- 5%
Output	Dimmed, Switched, Normally On, & Normall All models have 3 switchable command zon 1 normally ON circuit.	
Optional Power	Share Technology	
	adjustable 0-10 Vdc emergency dim fea connected normal 0-10 Vdc load of 3	
Operating Time.		25℃
Self-Testing & Se	elf-Diagnostic	
Month	nly reported via visual user interface p	anel
Transfer Time		nsec
Recharge Time		ours
Battery over volta	age and under voltage protection	
Sealed long-life,	valve-regulated, lead calcium batter	ies
Dimensions	17.3"H x 15.4" W x 4.	25"D
Weight		7 lbs.
Operating Tempe	erature68°F to 86°F (20°C to 3	0° C
Storage Tempera	ture 4° F to 158 °F (-20°C to 7	70°C)
Warranty	2 years full on electro 4 years pro-rata on batte See website for warranty de	eries,

Options

- PST 3 Independent Adjustable (20-100%) Dimming Zones, 0-10Vdc, Dali, & Fire Alarm Interface (Max. Normal Power Load of **375W** when using Power Share Technology -PST) Audible Alarm -AA

Examples: Si-250 & Si-250-PST Si-250-AA



For Remote Test Monitor - Order RTS-M Separately

Specifiers reference:

Project:
Туре:
Model #:
Comments:

Description

The Assurance Emergency Lighting Si-250 & Si-250-PST are Pure sine wave output self-test/self diagnostic inverters designed for designated emergency lighting fixtures. In the event of a power failure, the inverter will automatically supply 250 watts of emergency power to LED, fluorescent and incandescent luminaires for ninety (90) minutes. It will operate with multiple switched, non-switched and emergency only luminaires. It can operate as a standalone 250 watt inverter It has optional features such as Power Share Technology (PST) for auto dimming in emergency, audible alarm and Seismic Restraints.

When the PST option is selected, it can be used with 0-10 Vdc controlled dimmable luminaires (up to 375W) and the 0-10 Vdc dimming voltage is adjusted to the AC drivers for rated emergency output.

Specifications

Emergency lighting shall be provided by the Assurance Si-250 inverter unit equipment designed to operate designated LED and fluorescent fixtures on emergency power (up to 250W) either at rated power or reduced luminaire power using the optional Power Share Technology during the 90 minute emergency discharge regardless of the wall switch position. The inverter shall allow for connected emergency fixtures to normally on, normally off dimmed/switched without affecting lamp operation during a power failure. The unit shall include a self-contained inverter section with an automatic, variable-rate battery charger, low voltage battery disconnect, short circuit, brown out protection and 5X crest factor for high in rush currents. The unit shall utilize a valve regulated sealed lead calcium battery with a 10 year design life expectancy. The inverter shall be self testing and self diagnostic and perform monthly self diagnostic test and report failures via user interface panel. The Si-250 shall have the option of Power Share Technology (Si-250-PST)- which dims the load (normal load 375W max.) in emergency via the 0-10 vdc luminaire inputs to pre-selected values (20, 40, 60, 80 & 100%) for 3 independent zones. The inverter shall be UL Listed. It shall meet or exceed the requirements of UL924, NFPA 101 Life Safety Code, NFPA 70 National Electrical Code, OSHA, State and Local Codes.

Warranty: Two (2) years full on electronics and four (4) years pro rata on batteries. Per the California Energy Commission, Regulatory Advisory dated Oct. 31, 2018, Backup Battery Charger Systems, the Si-250 is applicable and accepted for use in California.

For 2 hour FEMA emergency operation, the Si-250 can power up to 188 W (max.) of emergency loads.

All Specifications subject to change without prior notification.

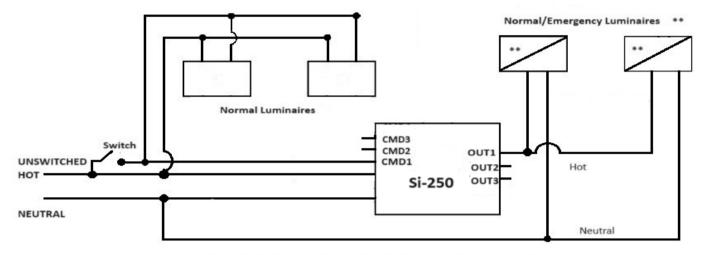
Assurance Emergency Lighting, a division of Assurance Engineering LLC

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DIAGRAM 1

Typical Wiring Diagram for Switched applications 3 Zones available- only one shown

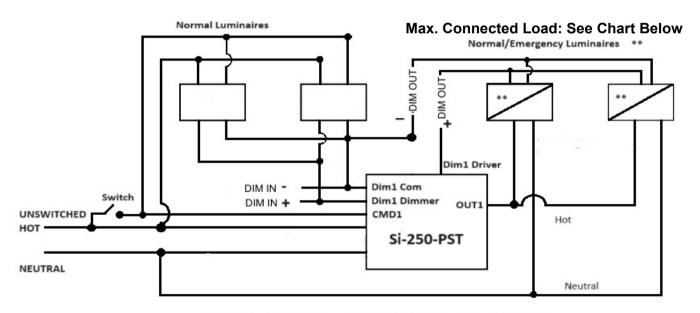
Max. Connnected Load: 250W



Note: Multiple zone wiring can be duplicated - Only One zone is shown.

DIAGRAM 2

Typical Wiring Diagram for 0-10 Vdc and Power Share Technology 3 Zones are available - only one shown.



Note: Multiple zone wiring can be duplicated - Only One zone is shown.

Additional CMDs, DIM, and OUTs not shown.

TABLE 1

Output of all (3) dimming circuits	2.0 V		4.0 V		6.0V		8.0 V		10.0 V	
Model	Normal Mode	Emergency	Normal	Emergency	Normal	Emergency	Normal	Emergency	Normal	Emergency
		Mode								
Si-250-PST	375W Max.	250W Max.	375W Max.	250W Max	375W Max.	250W Max.	312W Max.	250W Max.	250W Max.	250W Max.

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