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

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Approvals. BAA	UL Lister	d to UL924 Compliant
Input Volta	ge	c input/Output
Input Curi	r ent 2.7A (120 Vac), 1.2	A (277Vac)
Input Freq	quency	60 Hz
Power Fact	tor0.5 Leading to 0	.5 Lagging
Output	120-277	Vac, 60 Hz
Output Cu	rrent 2.0 A (120 Vac), 0.9	A (277 Vac)
Output Pov	wer	250 W
Output vol	tage regulation in emergency	+/- 5%
Output	Dimmed, Switched, Normally On, & All models have 3 switchable comma 1 normally ON circuit.	Normally Off and zones and
Optional P	ower Share Technology	dine Constant
	Max. connected normal 0-10 Vdc loa	dim feature d of 375 W
Operating [*]	Time90 Minu	tes @ 25℃
Self-Testin	g & Self-Diagnostic	
	Monthly reported via visual user inter	face panel
Transfer Ti	me	50 msec
Recharge T	Fime	. 24 Hours
Battery over	er voltage and under voltage protecti	on
Sealed long	g-life, valve-regulated, lead calcium	batteries
Dimension	s 17.3"H x 15.4"	W x 4.25"D
Weight		57 lbs.
Operating	Temperature68°F to 86°F (20	°C to 30° C
Storage Te	mperature4° F to 158 °F (-20)°C to 70°C)
Warranty .	2 years full on e	electronics,
	4 years pro-rata or	n batteries,
	See website for warra	inty details
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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 Assurance Emergence

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. Buy American Act Compliant

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

Assurance Engineering LLC · 357 Cumberland Street · Memphis, TN 38112 · 1-877-774-4775 · www.assurancelighting.com

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 Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	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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