

CENTRAL LIGHTING INVERTER SYSTEMS

AC EMERGENCY POWER • SINGLE/THREE PHASE • INTERRUPTIBLE/UNINTERRUPTIBLE



GREATER VALUE INCREASED SAFETY



In an emergency, life safety is the number one priority. By using central lighting inverters, occupants are more likely to evacuate in a safe and orderly fashion, feel more at ease during a crisis, all the while maintaining the architectural integrity of the building and typically yielding the lowest total cost of ownership during normal operation.

LSN LIFE SAFETY NETWORK MEDIUM SINGLE-PHASE INVERTER





LIFE SAFETY CODE

When interior or exterior lighting extinguishes due to an interruption in the normal power supply, the Life Safety Code (NFPA 101) requires egress pathway illumination, which can be provided by a Dual-Lite inverter system. This requirement includes illuminating both the path of egress from inside the building to the nearest exit point and from outside the building to the "public way".

According to the Life Safety Code, emergency pathway illumination is required for:

Stairs Ramps Escalators
Aisles Walkways Exit passages
Corridors Parking lots Outdoor pathways

SAFETY · VALUE

When compared to other emergency lighting solutions, Central Lighting Inverters are:

- Safer than other emergency lighting solutions because their full lumen output results in higher emergency light levels.
- More **reliable** because they are centrally located for easy maintenance and have the capability to email test results or alarm conditions to maintenance personnel.
- Value offered by using existing light sources, which maintains architectural design, easy maintenance, email test results and alarm conditions.

Interruptible and non-interruptible emergency AC power systems in single and three-phase configurations.



 $\textbf{\textit{LIGHTPOWER}}^{\text{``}}$ Single-phase central lighting micro inverter



THREE-PHASE CENTRAL LIGHTING INVERTERS

ADVANTAGES

FULL LUMEN OUTPUT

- Emergency lighting is provided by existing luminaires.
- Power designated luminaires to full lumen output during a power outage.
- Bright, evenly illuminated path of egress in emergency situations.

AESTHETICS

· Maintains architectural intent and integrity while satisfying life safety requirements.

EASE OF INSTALLATION

A single central lighting inverter will provide code required power to the emergency lighting
vs. multiple fluorescent battery packs or unit equipment. This reduces the amount of time
and labor required for initial installation.

EASE OF MAINTENANCE

• One central location for maintenance throughout the building.

COMPATIBILITY

- Compatible with LED, HID, fluorescent and incandescent loads.
- Uninterruptible and Interruptible inverters available for best fit application needs.

OUTDOOR APPLICATIONS

- Inverters can remain located inside the building so cold or wet conditions that can impact performance, cost or life of the product are eliminated.
- Indoor located inverters can provide back-up to outdoor light fixtures.

AREA OF COVERAGE

• The ability to generate the required level of illumination in large venues, such as stadiums or gymnasiums, is beyond the capability of most emergency lighting unit equipment. A properly sized central lighting inverter powering existing fixtures at full light output is the logical choice for these applications.

AUXILIARY CRITICAL LOADS

Capacity to provide emergency power for:

- Fire detection and protection equipment
- Directional egress systems
- Building management systems
- Automated door mechanisms
- Climate control systems

- Patient care support functions
- Security systems
- Communications equipment

TOTAL COST OF OWNERSHIP

- Reduce your operating and maintenance costs to yield the lowest overall total cost of ownership.
- Intuitive interfaces
- Remote communications technology
- Energy efficient designs
- Central maintenance location

LIGHTPOWER

SINGLE-PHASE CENTRAL LIGHTING MICRO INVERTER

- Designed for indoor installation in commercial or industrial applications,
- Provide sinusoidal Emergency AC power to lighting fixtures equipped with incandescent, linear fluorescent, compact fluorescent or LED lamps between 20 and 55 watts.
- The lighting load can be installed at a distance of up to 1,000 feet from the LIGHTPOWER™ micro inverter. Observe all required AC conductor sizing requirements.





FEATURES & BENEFITS

AC LOCKOUT

Prevents battery damage by shutting off DC battery power prior to AC power being supplied during installation.

BROWNOUT PROTECTION

Protects loads from low AC line voltage

LOW VOLTAGE DISCONNECT

Protects the batteries from damaging 'deep-discharge' conditions during prolonged power outages.

MULTIPLE MOUNTING OPTIONS

Surface wall mounted, recessed wall mounted, or recessed into a T-Grid ceiling.

LED LAMP COMPATIBILITY

More cost effective than decentralized battery packs at providing emergency power to a luminaire.

TRUE SINE WAVE OUTPUT

Sinusoidal waveforms yield less distortion and assure that sensitive loads will operate normally.

GENERATION I STATUS & CONTROL INTERFACE

Three multipurpose LED indicators provide simple, intuitive interface to notify the user of operating status.

ORDERING GUIDE

5			-		
	Capa	acity		Мо	unting
Micro	20	20 VA/W ¹		s	Surface Wall
Inverter	32	32 VA/W ²		R	Recessed Wall ¹
	35	35 VA/W ¹		Т	Recessed Ceiling T-Grid
	55	55 VA/W ²			
		Micro 20 linverter 32 35	Capacity	Capacity Micro 20 20 VA/W Inverter 32 32 VA/W 35 35 VA/W	Capacity Mo Micro 20 20 VA/W S Inverter 32 32 VA/W R 35 35 VA/W T

Notes:

- 1 Nickel-Cadmium battery type
- 2 Lead Calcium battery type

ACCESSORIES

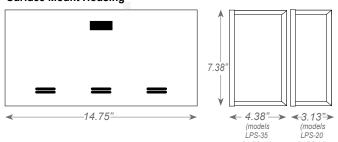
RTSLP Remote Test Switch for LPS

SPECIFICATIONS

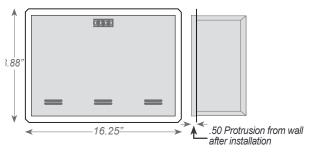
	LPS32	LPS55	LPS20	LPS35						
Power Rating (VA/W)	32	55	20	35						
Power Factor Range		0.44 lead t	to 0.44 lag							
Temp Range (°C)		20-30								
Weight (lb) with batteries	14	18	11	12						
Maximum Input Current (A)	120 VAC: 0.34 A 277 VAC: 0.15 A	120 VAC: 0.54 A 277 VAC: 0.23 A	120 VAC: 0.25 A 277 VAC: 0.11 A	120 VAC: 0.37 A 277 VAC: 0.16 A						
System DC Voltage		12								
Recharge Time (Hr)		9	6							

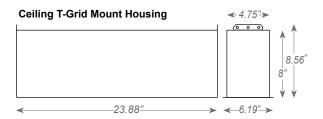
DIMENSIONS

Surface Mount Housing



Recessed Mount Housing







Mount Model



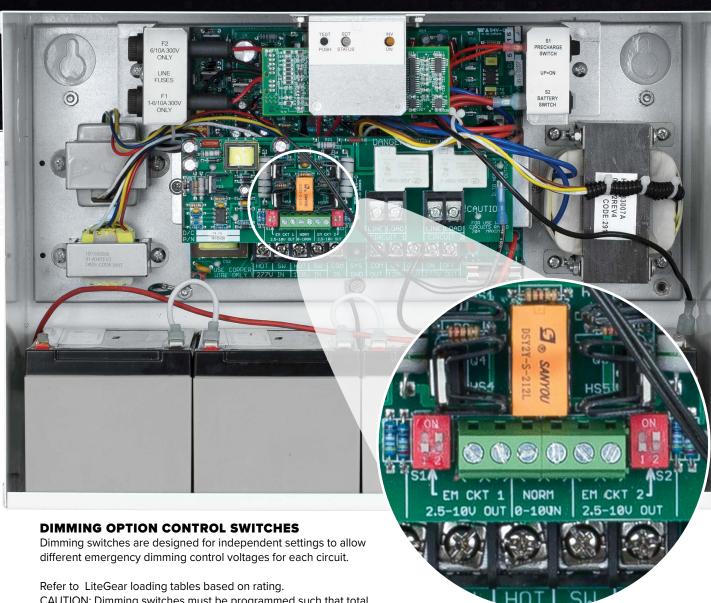


Recessed Ceiling Mount T-Grid Model

Liesse

ADJUSTABLE OUTPUT

LiteGear adjustable output (-AO) versions, with two or four emergency circuits, work with 0-10V dimmer controls to eliminate the need for additional bypass devices or separate inverters for each switched load. Both circuits are user-programmable to operate the connected fixtures at approximately 25%, 50%, 75% or 100% of nominal output during emergency mode.

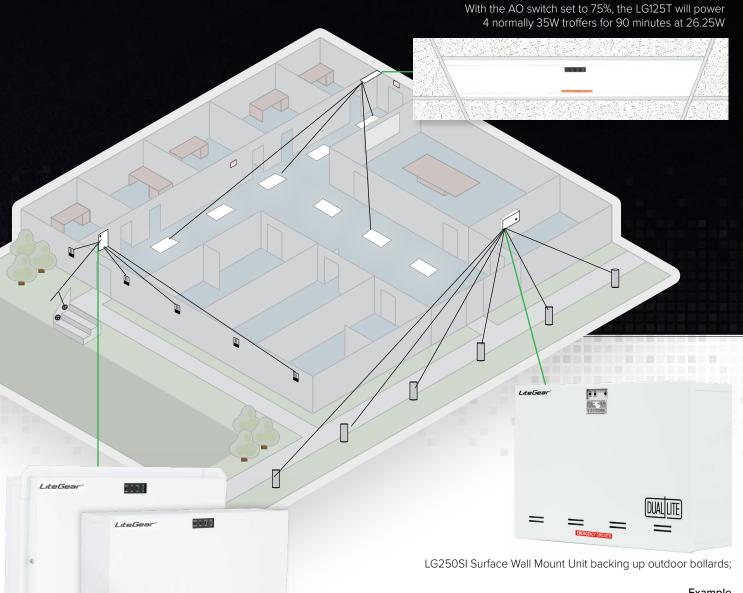


CAUTION: Dimming switches must be programmed such that total loads do not exceed unit rating in emergency mode

LG125S Surface Wall Mount or LG125R backing up outdoor steplights and wall packs

Example

With the AO switch set to 50%, the LG125 will power 6 normally 30W LED lamps for 90 minutes at 15W



With the AO switch set to 100%, the LG250 will power 6 normally 31W LED lamps for 90 minutes at 31W

LOADING TABLE

			Ma	ximum L	oad (Wa	tts)		
Output of all (4) dimming circuits (Volts)	2	2.5	5	.0	7.	.5	10.0	
Model	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode	Norm Mode	Emerg Mode
LG125-AO	400	110	200	110	133	110	110	110
LG250-AO	800	220	400	220	267	220	220	220
LG375-AO	1350	375	675	375	450	375	375	375
LG600-AO	2160	600	1080	600	720	600	600	600
LG750-AO	2700	750	1350	750	900	750	750	750
LG950-AO	3420	950	1710	950	1140	950	950	950
LG1150-AO	4140	1150	2070	1150	1380	1150	1150	1150

Lieseer

COMPACT SINGLE-PHASE INVERTERS 125VA OR 250VA

- Available with 125VA or 250VA capacities
- Provides emergency AC power to existing indoor and outdoor lighting fixtures.
- Compatible with incandescent, compact fluorescent, linear fluorescent and LED lamped fixtures.





FEATURES & BENEFITS

AC LOCKOUT

Prevents battery damage by shutting off DC battery power prior to AC power being supplied during installation.

BROWNOUT PROTECTION

Protects loads from low AC line voltage

LOW VOLTAGE DISCONNECT

Protects the batteries from damaging 'deep-discharge' conditions during prolonged power outages.

MULTIPLE MOUNTING OPTIONS

Surface wall mounted while the LG125 may be surface wall, recessed wall, or recessed into a T-Grid ceiling.

LED LAMP COMPATIBILITY

More cost effective than decentralized battery packs at providing emergency power to a luminaire.

TRUE SINE WAVE OUTPUT

Sinusoidal waveforms yield less distortion and assure that sensitive loads will operate normally.

GENERATION I STATUS & CONTROL INTERFACE

Three multipurpose LED indicators provide simple, intuitive interface to notify the user of operating status.

ADJUSTABLE OUTPUT OPTION

0-10V dimming compatibility distributes output across larger loads and eliminates need for external bypass devices.

SPECIFICATIONS	LG125S	LG125R	LG125T	LG250S	LG250SI			
Power Rating (VA - W)		125/110		250	/220			
Power Factor Range		0.88	lead to 0.88	lag				
Form and Fit	Wall Mount Surface	Wall Mount Recessed	Ceiling Mount Recessed T-grid	Wall Mount Surface				
Weight (lb) with batteries	42	42	43	60				
Maximum Input Current (A)	120 VAC: 1.2 A 277 VAC: 0.52 A	120 VAC: 1.2 A 277 VAC: 0.52 A	120 VAC: 1.2 A 277 VAC: 0.52 A		C: 2.4 A AC: 1.1 A			
System DC Voltage	-	24		4	48			
Recharge Time (Hr)		96		96				

ORDERING GUIDE

LC	LG		_					_				
Model		Capacity			Mounting		Self-Diagnostics		Options		S	
LG	Litegear®	125	125VA/110W		s	Surface	Blank	None		Blank	None	
	Central Ligthing	250	250VA/220W ³			Wall	1	Self Testing/ Diagnostics ^{2,4}		AO	Adjustable	
	Inverter				R	Recessed Wall ¹		Diagnostics	S		Output (4 - levels)	
					Т	Recessed Ceiling T-Grid ¹						

Accessories (Order Separately) RTSLP Remote Test Switch

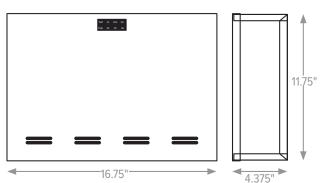
- 1 Only available on 125VA/110W version
- 2 Only available on 250VA/220W version
- Housing (93098085) and batteries (93068259)
- 4 Housing (93098087) and batteries (93068259) ship in separate cartons

DIMENSIONS

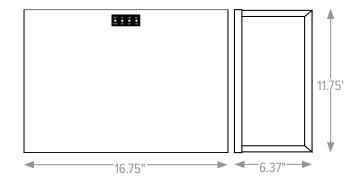
LG125S Wall Mount Surface Model

Interior or exterior egress lighting on multiple circuits with

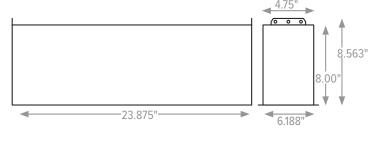
each circuit powered by a separate LiteGear®.



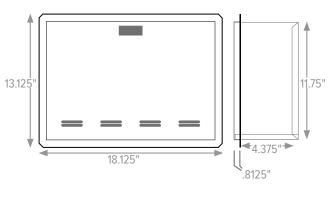
LG250S and LG250SI Wall Mount Surface Models







LG125R Recessed Wall Mount Model



LiteGeter

COMPACT SINGLE-PHASE INVERTER 375/600 MODELS

- Available with 375VA or 600VA capacities
- Provides emergency AC power to existing indoor and outdoor lighting fixtures.
- Compatible with incandescent, compact fluorescent, linear fluorescent and LED lamped fixtures.



FEATURES & BENEFITS

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Prevents battery damage by shutting off DC battery power prior to AC power being supplied during installation.

BROWNOUT PROTECTION

Protects loads from low AC line voltage

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LED LAMP COMPATIBILITY

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Three multipurpose LED indicators provide simple, intuitive interface to notify the user of operating status.

ADJUSTABLE OUTPUT OPTION

0-10V dimming compatibility distributes output across larger loads and eliminates need for external bypass devices.

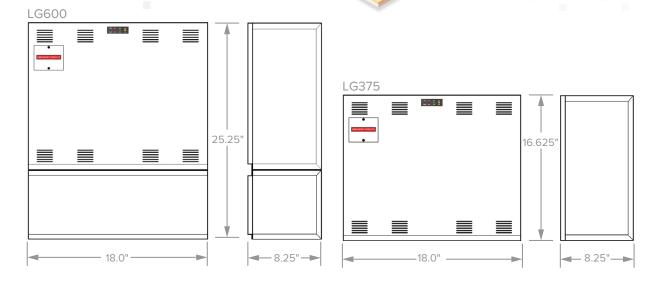
OUTPUT CIRCUIT BREAKER OPTION

Two (2) 10A circuit breakers protect output loads

SPECIFICATIONS

	LG375S	LG375SI	LG600S	LG600SI				
Power Rating (VA - W)	375/	375	600/600					
Power Factor Range		0.88 lead to 0.88 lag						
Weight (lb) with batteries	113	3	172					
Maximum Input Current (A)	120 VAC 277 VAC		120 VAC : 5.5 A 277 VAC : 2.4 A					
System DC Voltage	60)	96					
Recharge Time (Hr)	96	ò	9	6				

DIMENSIONS



RTSLP Remote Test Switch

ORDERING GUIDE

LC	;							_		
Model		Capacity		Mounting		Self-Di	Self-Diagnostics		Options	
LG Litegear®				s	Surface Wall	Blank	None		Blank	None
	Central Ligthing Inverter	600	600VA/W			ı	Self Testing/Diagnostics		AO	Adjustable Output (4 - levels) with 4 output circuits
	inverter								СВ	Two (2) 10A Output Circuit Breakers

Liechen

COMPACT SINGLE-PHASE INVERTER 750-950-1150 MODELS

- Available with 750VA, 950VA or 1150VA capacities
- Provides emergency AC power to existing indoor and outdoor lighting fixtures.
- Compatible with incandescent, compact fluorescent, linear fluorescent and LED lamped fixtures.



FEATURES & BENEFITS

AC LOCKOUT

Prevents battery damage by shutting off DC battery power prior to AC power being supplied during installation.

BROWNOUT PROTECTION

Protects loads from low AC line voltage

LOW VOLTAGE DISCONNECT

Protects the batteries from damaging 'deep-discharge' conditions during prolonged power outages.

LED LAMP COMPATIBILITY

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ADJUSTABLE OUTPUT OPTION

0-10V dimming compatibility distributes output across larger loads and eliminates need for external bypass devices.

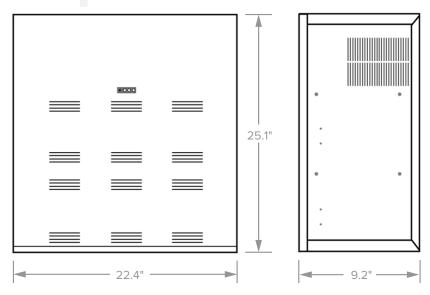
OUTPUT CIRCUIT BREAKER OPTION

Two (2) 10A circuit breakers protect output loads

SPECIFICATIONS

	LG750S	LG750SI	LG950S	LG950SI	LG1150S	LG1150SI		
Power Rating (VA - W)	750	/750	950	/950	1150/1150			
Power Factor Range		0.88 lead to 0.88 lag						
Weight (lb) with batteries	19	90	2	22	254			
Maximum Input Current (A)		C: 7.53 A C: 3.26 A		C: 8.45 A C: 3.66 A	120 VAC : 10.2 A 277 VAC : 4.42 A			
System DC Voltage	2	18	6	60	72			
Recharge Time (Hr)		96						

DIMENSIONS



ORDERING GUIDE

LO	}							
Model		Capacity		Мс	ounting	Self-Diagnostics		
LG	Litegear®	750	750VA/W	s	Surface Wall	Blank	None	
	Central Ligthing	950	950VA/W			ı	Self Testing/Diagnostics	
	Inverter	1150	1150VA/W					

-		
	Option	s
	Blank	None
	AO	Adjustable Output (4 - levels) with 4 output circuits

Six (6) 10A Output Circuit

Accessories (Order Separately)

RTSLP Remote Test Switch

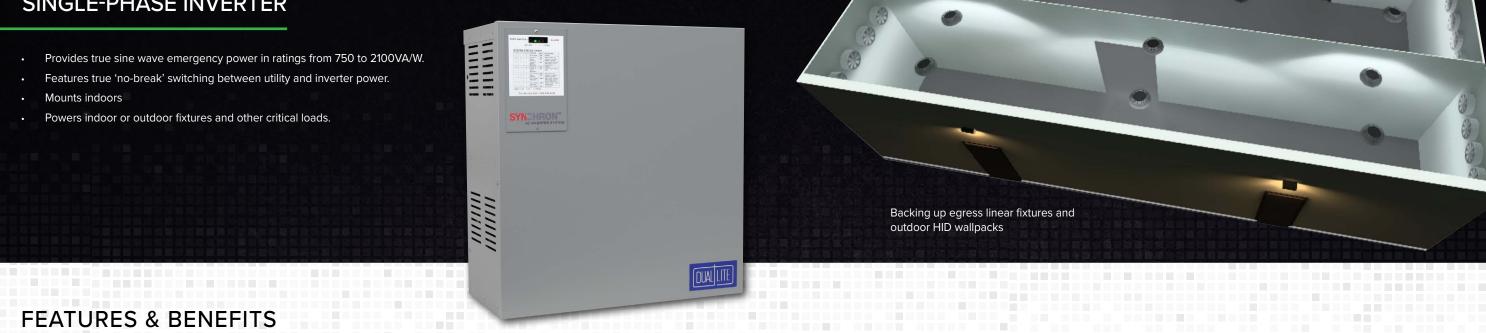
Notes:

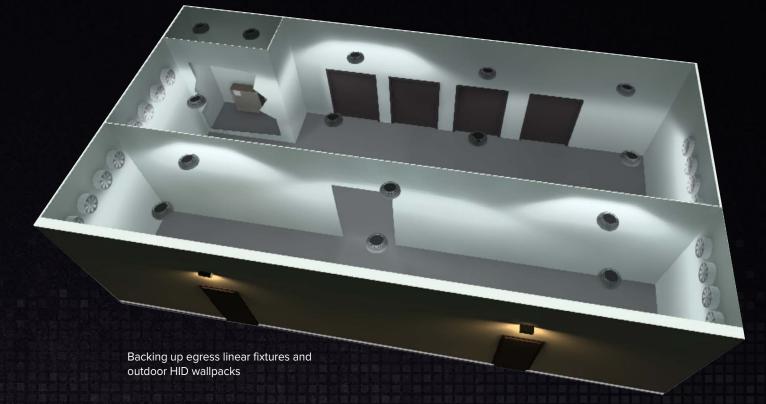
- Maximum loading of each circuit must be 1,035 watts or less.
- 2 15A branch circuit max.

SYNCHRON

SINGLE-PHASE INVERTER

- Provides true sine wave emergency power in ratings from 750 to 2100VA/W.
- Features true 'no-break' switching between utility and inverter power.
- Mounts indoors
- Powers indoor or outdoor fixtures and other critical loads.





FEATURES & BENEFITS

OFFLINE TECHNOLOGY

Continuously monitors input power conditions allowing the unit to operate with 98% efficiency which lowers operating costs.

HID COMPATIBILITY

An instantaneous and synchronized transfer of power from normal to emergency mode ensures compatibility with HID lamp sources.

TRUE SINE WAVE OUTPUT

Sinusoidal waveforms yield less distortion and assure that sensitive loads will operate normally.

PULSE WIDTH MODULATION

High frequency, digitally generated output waveform results in greater efficiency, less heat, quieter operation and lower operating costs.

SMALL FOOTPRINT

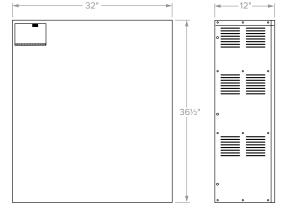
The Synchron inverter system has one of the smallest footprints in the industry – less than 3 square feet!

GENERATION II STATUS & CONTROL INTERFACE

Three multipurpose LED indicators provide a simple, intuitive interface to notify the user of operating status malfunctions.

DIMENSIONS





SPECIFICATIONS

VA/Watts	750	1000	1500	2100				
Power Factor Range	.8 lead to .75 lag							
Input/Output Voltage		120/120 or 277	7/277VAC ±10%					
AC Input Circuit Breaker Rating 120/277V	10/5A	13/6A	20/8A	25/10A				
Charger Size	2 Amps							
System DC Voltage	72	72	72	96				
Cabinet Size		3"H x 10"D 4cmH x 25.4cmD)	32"W x 36.5"H x 12"D (81.3cmW x 92.7cmH x 30.5cmD)					
BTU/Hour - Line/Inverter	131/382	175/510	263/765	368/886				
Weight [lbs. (kg) - including batteries]	281 (128)	346 (157.6)	400 (182.2)	480 (218.7)				

ORDERING GUIDE

DLS	-										
Model	Cap Ratii	acity ng	Input/ Output Voltage (VAC)	Output Breake	: Circuit er Type	Br Vo	utput Circuit eaker Iltage ting	Output Circuit Breaker Ampere Rating	Output Circuit Breaker Quantity ^{1,5,6}	Output Breake Superv	
DLS Single Phase Central Lighting Inverter	15	50 900 900 900	120 277	Blank N	Normally On Normally Off ^{2,3,4}	В	120VAC 277VAC	15 20 25 30	01 to 10	Blank U	Monitored Unmonitored

Notes:

- 1 A maximum of 6 monitored or 10 unmonitored normally-
- 2 A maximum of 4 normally-off circuit breakers may be
- 3 Maximum rating of normally-off circuit breakers is 20 4 Normally-off output circuit breakers include a built-in, 15
- minute retransfer delay to accomodate HID lighting 5 Total quantity of monitored normally-off and normally-on
- breakers cannot exceed 6
- Total quantity of unmonitored normally-off and normally-on breakers cannot exceed 10

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LIFE SAFETY NETWORK

MEDIUM SINGLE-PHASE INVERTER

- Includes self-test/self-diagnostic circuitry that complies with Life Safety Code requirements
- A two-line 40 character digital display and a user interface providing control of over 250 operating parameters.
- Available in capacity ratings of 1.0 through 17.5 KVA/KW.



FEATURES & BENEFITS

COMMUNICATIONS

Equipped with an RS232 communication interface. Optional email capability sends pre-defined users alarm and test reports.

ADVANCED BROWNOUT PROTECTION

Protects your loads from brownouts and recurrent low-voltage transients by sensing any drop in voltage and boosting the voltage back up to nominal without drawing current from the batteries and shortening their lives.

SMALL FOOTPRINT

Has one of the smallest footprints in the industry – less than 4 square feet for systems less than 5.0KVA!

SECURITY

Comes standard with locked cabinetry and password protection.

SELF-TESTING/SELF-DIAGNOSTICS

Electronics perform continuous testing of subsystems and lighting loads.

AUTOMATIC & PROGRAMMABLE RECORDING

User-programmable discharge tests are performed and logged into memory for automatic NFPA 101 compliance.

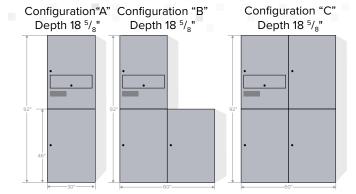
GENERATION III STATUS & CONTROL INTERFACE

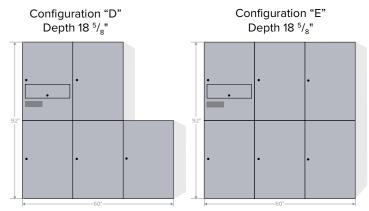
A 2-line x 40 character microprocessor-controlled display allows the user to monitor and control the inverter through a menu driven interface.

SEISMIC QUALIFIED OPTION

Suits installation specifications calling for continued operation during and after seismic event.

CABINET CONFIGURATIONS







ORDERING GUIDE

D										_								
Model		Input Voltage ²		Capacity		pacity	Battery Type		Output Voltage (VAC) ^{2,3,4}		Output Circuit Breaker Type			put Circuit aker Voltage ing	Output Circuit Breaker Ampere Rating ⁶	Output Circuit Breaker Quantity ⁷	Output Circuit Breaker Supervision	
D	LSN	120	120VAC	[01	1.0KVA	s	10-year VRLA	120		Blank	Normally On	Α	120VAC	15	01 - 20	Blank	Monitored
	Central Lighting Inverter	208	208VAC		02 27	2.0KVA		Lead-Calcium	120/208		N	Normally Off	В	240VAC	30 50		U	Unmonitored
		240	240VAC	:		2.7KVA	G	20-year VRLA Lead-Calcium	120/2405				С	277VAC				
		277	277VAC	:	37	3.7KVA		Leda Calciam	120/277				D	208VAC	20			
		347	347VAC		48	4.8KVA			277						35			
				!	55	5.5KVA			347						60			
					66	6.6KVA									25			
				:	83	8.3KVA									40			
					10	10.0KVA									80			
				-	12	12.5KVA												
				-	15	15.0KVA ¹												
				-	17	17.5KVA ¹												

Options And Accessories

EML Email Device

RSP Remote Status Panel

SMT System Monitoring Terminal Including Emergency Power Off Terminal

AR Alternate Runtime8

SBC Short Battery Cabinet⁹

IBS Internal Maintenance Bypass Switch (Make Before Break)

C10 10 Amp Charger Upgrade¹⁰

C20 20 Amp Charger Upgrade¹¹

S Seismic Qualified¹²

Accessories

DSFK_ Seismic Kit

Service Options

FSL Factory Start-Up¹³

Notes:

- 1 Requires a provided external transformer for 208VAC or 240VAC input.
- 2 Refer to Specifications table for available Input/Output voltage combinations.3 Other voltages available. Consult factory.
- 4 External transformer may be provided.
- 5 Loading may not exceed 50% of the system's total rating on any 120VAC leg.
- 6 Normally Off circuit breakers: a maximum rating of 20 amps
- 7 Normally On circuit breakers: a maximum of 14 monitored, single pole positions or 20 unmonitored, single pole positions may be specified. Normally Off circuit breakers: a maximum of 8 single pole positions (monitored or unmonitored) may be specified.
- 8 Specify runtime in minutes when ordering. Example: AR120.
- Available with 1.0, 2.0, 2.7, 3.7, 5.5, and 6.6KVA Series with S batteries only.
- Available on 1.0 KVA 4.8KVA Series.
- Available on 5.5 KVA 17.5KVA Series. Not available with 120V input on 6.6KVA and above. Not available with 208V input on 12.5 KVA and above. Not available with 240V input on 15.0 KVA and above.
- 2 Type S Battery in standard height cabinet only; See system configuration for 90-minute run time.
- Start-Up is non-cancellable / non-returnable and must be performed by an Authorized Service Center within 6 months of battery shipment to increase the inverter warranty to 2 years. Order a quantity of 1 per system. Systems powered up by others are done so at their own risk.

rídent LARGE THREE-PHASE INVERTERS

- Available output capacity ratings from 10KVA to 125KVA
- Provides clean, regulated computer grade power in both normal and emergency operating mode.
- Offers the smallest three-phase system footprint currently available.
- Mounts indoors
- Powers indoor or outdoor luminaires and other critical loads.





FEATURES & BENEFITS

DOUBLE CONVERSION TECHNOLOGY

Provides an electronic firewall that allows consistent and steady delivery of clean, filtered power to your critical loads.

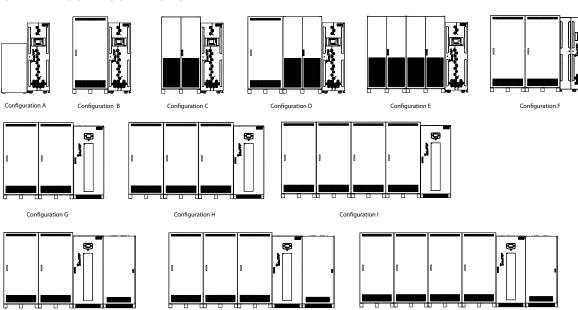
ADVANCED REMOTE COMMUNICATIONS

Available with a variety of remote monitoring and communications capabilities to report audible and visual signaling of status and alarm conditions using multiple protocols through Ethernet and/or web management tools.

GENERATION IV STATUS & CONTROL INTERFACE

Features a large, user-friendly, LCD graphic display for easy monitoring of operating perameters.

CABINET CONFIGURATIONS



ORDERING GUIDE

TRF		-		L		_			_			_	
Model		Input	Voltage	ĺ	Input Conductor		Capa	acity		Outpu	ut Voltage (VAC)		Options ^{6,7,8,9}
TRF Trident		208	208VAC1		3 3 Wire		10	10KVA/9KW		208	208VAC		A SNMP/Web Card
TRF 3-phas	ام	480	480VAC		4 4 Wire ²		15	15KVA/13KW		480	480VAC ³		B SNMP/Web Card & Env. Sensor
inverte							20	20KVA/18KW					C Top Entry Cabinet
							30	30KVA/27KW					D SNMP Card & Top Entry Cabinet
							40	40KVA/36KW					E SNMP Card, Env. Sensor & Top Entry Cabinet
							50	50KVA/45KW					F IFC Compliance
							60	60KVA/54KW					H Single Pole Power Distribution
							65	65KVA/58KW					J 2-pole Power Distribution
							80	80KVA/72KW					K 3-pole Power Distribution
							100	100KVA/90KW					
							125	125KVA/112KW					
					•		'			1		'	'

Factory Start-Ups (Required)4

 FST-1
 Factory Start-Up 10-30kVA

 FST-2
 Factory Start-Up 40-80kVA

 FST-3
 Factory Start-Up >80kVA

Accessories

TRF-RSP-1 Remote Status Panel 10-60kVA
TRF-RSP-2 Remote Status Panel 65-125kVA
TRF-SFK-1 Seismic Mounting 10-40kVA
TRF-SFK-2 Seismic Mounting 50-60kVA

lotes:

- 1 Only available with 208VAC output voltage
- 2 Available with 480VAC output voltage (all capacities), and with 208VAC input voltage on 10kVA through 65kVA capacities
- 3 Only available with 480VAC input voltage
- 4 Start-up must be performed by an Authorized Service Center within 6 months of shipment to maintain battery warranty
- 5 Batteries must be connect to an energized charging circuit within 90 days from date of shipment or warranty is void
- Alternate run times and 50Hz models available on request; consult factory
- 7 SNMP/Web Card: Internal SNMP Card allows inverter management across a LAN using any of the main network communication protocols TCP/IP, HTTP and network interface (SNMP) SNMP/Web Card & Env. Sensor: SNMP card with environmental sensor module that senses temperature, humidity and smoke and displays it via SNMP.
 - Top Entry Cabinet: Provides additional side-mounted compartment to allow for top conduit entry. This option adds 4.75 inches to the width and 6 inches to the depth of the 10-40kVA unit. It adds 15.75 inches to the width of the 65-125kVA unit
- 8 Power distribution available on 10-40kVA sizes; includes nine (9) unmonitored, 20A output breakers
- 9 Power distribution options include Top Entry Cabinet

FEATURES & OPTIONS COMPARISON











FEATURES	LightPower	LiteGear*	Synchron	LSN	Trident
Power Capacity	20 - 55 VA	125 - 1150 VA	750 - 2100 VA	1.0 - 17.5 KVA	10 - 125 KVA
Input Voltage					
Output Voltage	120,277 VAC	120,277 VAC	120,277 VAC	120-347 VAC	120, 208, 277, 480 VAC
Phasing	Single	Single	Single	Single	Three
AC Lockout		•	•		
Brownout Protection		•			
Low Voltage Disconnect		•	•	•	•
LED Lamp Compatibility	•	•	•	•	
HID Compatibility			•	•	•
Offline Technology		•	•	•	
Small Footprint		•	•	•	•
True Sine Wave Output		•	•	•	•
Pulse Width Modulation		•	•		
Advanced Brownout Protection					
Security				•	· ·
Self-Testing/Self Diagnostics		Optional on 250/375/600/750/950/1150			·
Automatic & Programmable Test Recording					·
Local Switch Bypass		•			
Double Conversion Technology					
NEMA 3R Cabinet					On Request
STATUS & CONTOL INTERFACE					
LED Indicator	3	3	3	5	6+
Test Button	Gen I	Gen I	Gen II	Gen III	Gen IV
LCD Display				Gen III	Gen IV
Keypad				Gen III	Gen IV
Dynamic Line Diagram					Gen IV
Menu Driven Interface					Gen IV
OPTIONS					
MULTIPLE MOUTING OPTIONS					
Recessed Ceiling	·	LG125			
Recessed Wall	·	LG125			
Wall		•			
Floor			•	•	· ·
Seismic				•	· ·
COMMUNICATIONS/CONTROL					
Dimmer Bypass		•			
RS232 Interface				•	
RS485 Interface					•
Email Interface				•	
Web Management Interface					· ·
SERVICE & SUPPORT					
Factory Startup			•	•	•
Additional Training Visit			•	•	•
Preventative Maintenance Program			•	•	•

INVERTER SELECTION GUIDELINES

Sizing an inverter should be based on using peak current requirements rather than a sum of lamp wattages. To size an inverter properly for a 90 minute run time, simply do the following three steps:

- Determine the VA of each fixture or product (fixture voltage x fixture peak current)
- Sum up the VA of each product or fixture
- Select the next larger inverter as long as it incorporates a safety factor (typically x 1.25) for slight voltage drops, excess inrush current and for future expansion

Utilizing the chart to the left, check that the inverter capacity needed allows for the features required.

EXAMPLE: A warehouse uses HID luminaires for its lighting of which (12) luminaires need emergency power. Each fixture needing emergency power utilizes a 250 MH lamp and draws 1.1 Amps on a single phase line voltage of 277VAC.

PROPER CALCULATION METHOD:

= 4,571VA or 4.571 KVA total load requirement. In this case, one would select a 4.8KVA or larger LSN inverter.

IMPROPER CALCULATION METHOD:

277 VAC x 1.1 Amps x 12 fixtures x 1.25 Safety Factor 12 fixtures = 3,000 VA or 3.0 KVA total load requirement. In this case, one would have selected 3.7 KVA LSN inverter. Once installed, this system would probably have experienced system overload resulting in additional costs from replacing blown fuses and additional service calls.

Suffice it to say, the most critical point of information is the peak current requirement (sometimes known as "Starting Current" or "Inrush Current") of each fixture. It can usually be retrieved from the ballast, driver or fixture specification sheet; sometimes, it must be obtained from the ballast/driver manufacturer. Now you know how to properly select a central lighting inverter system.

SERVICE & SUPPORT

FACTORY STARTUP

All single-phase inverter systems (except LiteGear® and LightPower™ models) offer factory start ups as a service option. There is a 2 year warranty when factory start up is purchased. Three-phase Trident inverters require a factory start-up be purchased. A factory trained technician will perform all steps necessary to ensure proper operation of the central lighting inverter following installation by a qualified electrical contractor.

ADDITIONAL TRAINING VISIT

After completing the on-site system start-up, the technician will be available at that time to train owner/ user personnel. If the appropriate personnel are not available for on-site training at the completion of the factory start-up procedure, an Additional Training Visit (ATV) option is available at extra cost.

PREVENTIVE MAINTENANCE PROGRAM

All single-phase (except LiteGear® and LightPower® models) and three-phase inverter systems qualify for Dual-Lite's preventive maintenance program. This program provides nine different plan levels including extended warranty programs. Each plan offers a choice of preventive maintenance levels that provide annual visits by a factory trained technician plus 'call for service' options.

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