

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, occupants feel more at ease during a crisis, maintain the architectural integrity of the building and typically yield the lowest total cost of ownership during normal operation.

LSN LIFE SAFETY NETWORK
MEDIUM SINGLE-PHASE INVERTER



Trident

THREE-PHASE CENTRAL LIGHTING INVERTERS



LiteGear
COMPACT SINGLE-PHASE INVERTER



LIGHTPOWER

SINGLE-PHASE CENTRAL LIGHTING MICRO 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.
- Are 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.

SYNCHRON

SMALL SINGLE-PHASE INVERTER



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

LPS		Capacity		Mounting	
Model					
LPS	Micro Inverter	20	20 VA/W ¹	S	Surface Wall
		32	32 VA/W ²	R	Recessed Wall ¹
		35	35 VA/W ¹	T	Recessed Ceiling T-Grid
		55	55 VA/W ²		

Notes:

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

ACCESSORIES

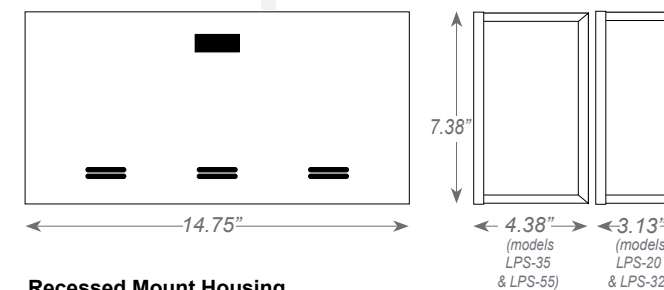
RTSLP Remote Test Switch for LPS

SPECIFICATIONS

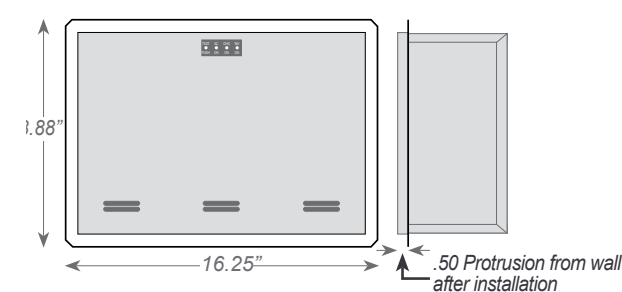
	LPS32	LPS55	LPS20	LPS35
Power Rating (VA/W)	32	55	20	35
Power Factor Range	0.44 lead to 0.44 lag			
Temp Range (°C)	20-30			
Weight (lb) with batteries	14	18	11	12
Maximum Input Current (A)	120 VAC: 0.34 A 277 VAC: 0.15 A	120 VAC: 0.54 A 277 VAC: 0.23 A	120 VAC: 0.25 A 277 VAC: 0.11 A	120 VAC: 0.37 A 277 VAC: 0.16 A
System DC Voltage	12			
Recharge Time (Hr)	96			

DIMENSIONS

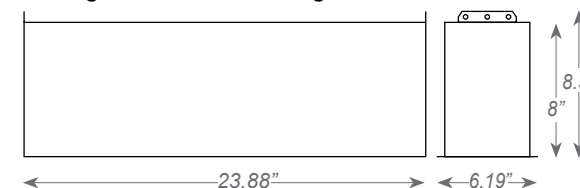
Surface Mount Housing



Recessed Mount Housing



Ceiling T-Grid Mount Housing



Surface Wall Mount Model



Recessed Wall Mount Model



Recessed Ceiling Mount T-Grid Model

LiteGear®

COMPACT SINGLE-PHASE INVERTERS 125VA OR 250VA

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



Interior or exterior egress lighting on multiple circuits with each circuit powered by a separate LiteGear®.

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	120 VAC: 2.4 A 277 VAC: 1.1 A	
System DC Voltage	24			48	
Recharge Time (Hr)	96			96	

ORDERING GUIDE

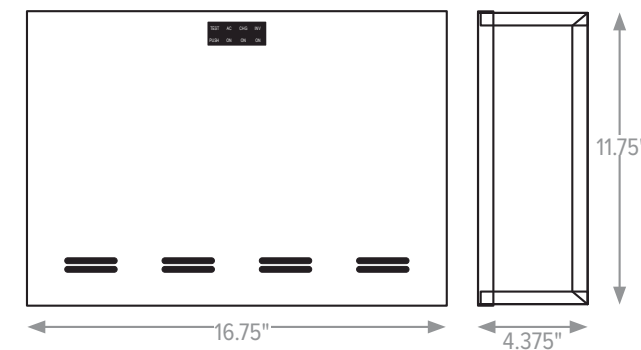
LG	Model	Capacity	Mounting	Self-Diagnostics	Options
LG	Litegear® Central Lighting Inverter	125 125VA/110W 250 250VA/220W ²	S Surface Wall R Recessed Wall ¹ T Recessed Ceiling T-Grid ¹	Blank None I Self Testing/Diagnostics ^{2,4}	Blank None AO Adjustable Output (4 - levels)

Accessories (Order Separately)	
RTSLP	Remote Test Switch

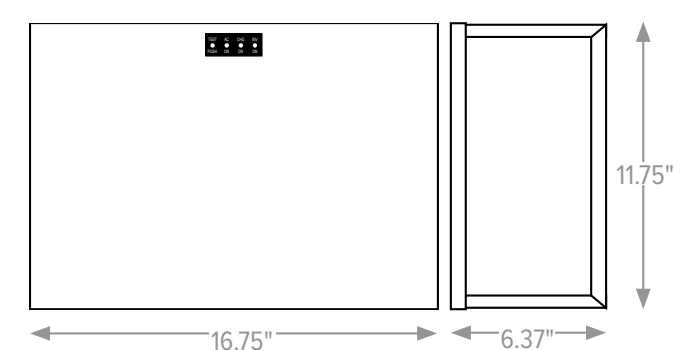
- Notes:
- 1 Only available on 125VA/110W version
 - 2 Only available on 250VA/220W version
 - 3 Housing (93068300) and batteries (93068259) ship in separate cartons
 - 4 Housing (93081978) and batteries (93068259) ship in separate cartons

DIMENSIONS

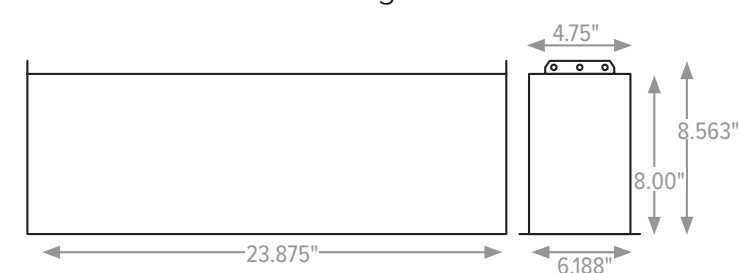
LG125S Wall Mount Surface Model



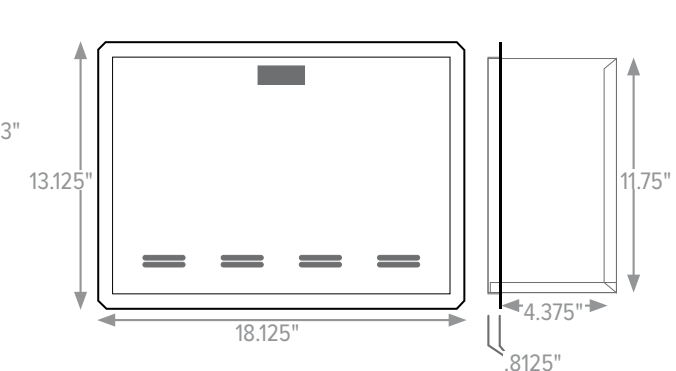
LG250S and LG250SI Wall Mount Surface Models



LG125T Recessed Ceiling T-Grid Mount Model



LG125R Recessed Wall Mount Model



LiteGear®

COMPACT SINGLE-PHASE INVERTER 375/600 MODELS

- Available with 375VA or 600VA capacities
- Provide 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

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.

OUTPUT CIRCUIT BREAKER OPTION

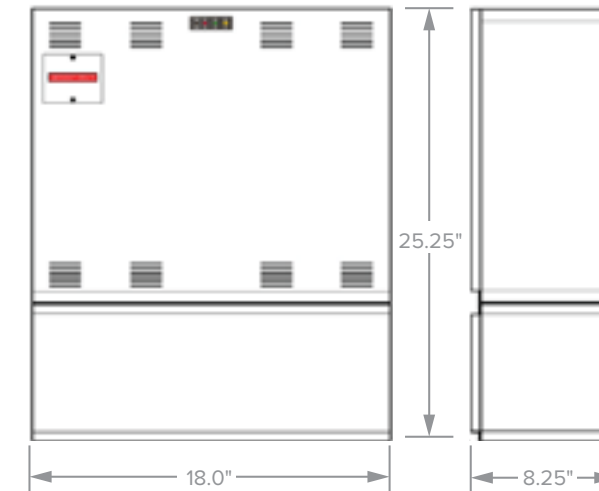
Two (2) 10A circuit breakers protect output loads

SPECIFICATIONS

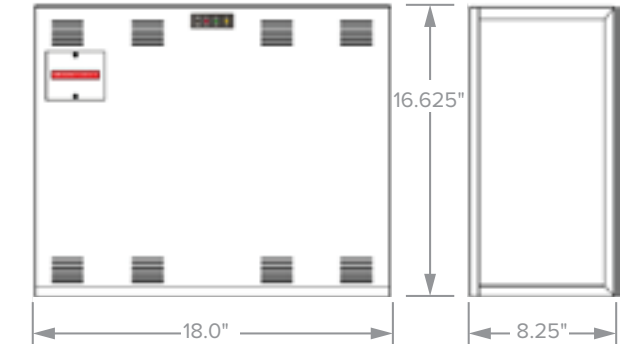
	LG375S	LG375SI	LG600S	LG600SI
Power Rating (VA - W)	375/375		600/600	
Power Factor Range	0.88 lead to 0.88 lag			
Weight (lb) with batteries	113		172	
Maximum Input Current (A)	120 VAC : 3.4 A 277 VAC : 1.5 A		120 VAC : 5.5 A 277 VAC : 2.4 A	
System DC Voltage	60		96	
Recharge Time (Hr)	96		96	

DIMENSIONS

LG600



LG375



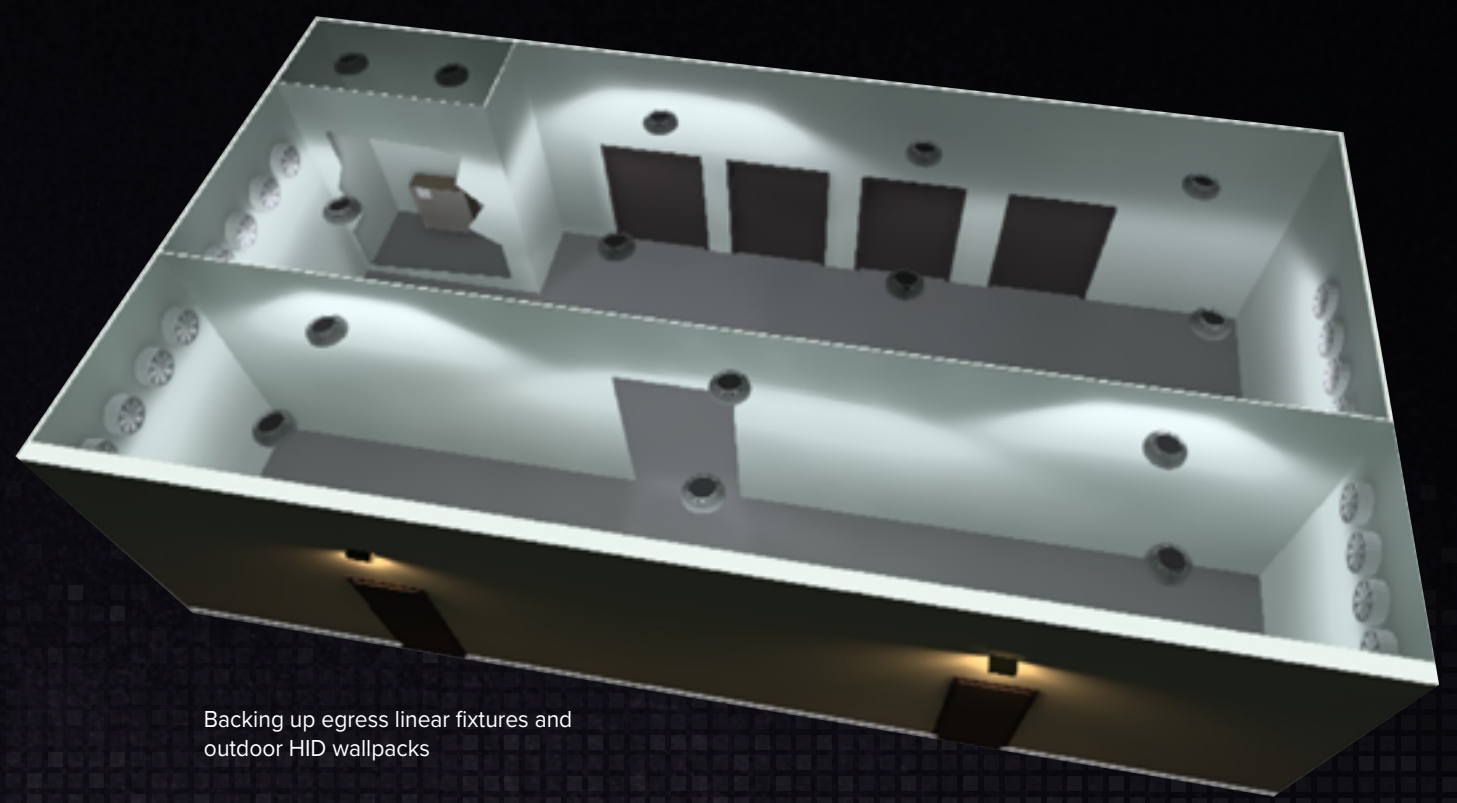
ORDERING GUIDE

LG	Capacity	Mounting	Self-Diagnostics	Options	Accessories (Order Separately)
Model	375 375VA/W 600 600VA/W	S Surface Wall	Blank None I Self Testing/Diagnostics	Blank None AO Adjustable Output (4 - levels) with 4 output circuits CB Two (2) 10A Output Circuit Breakers	RTSLP Remote Test Switch

SYNCHRON

SINGLE-PHASE INVERTER

- Provides true sine wave emergency power in ratings from 400 to 2100VA/W.
- Features true 'no-break' switching between utility and inverter power.
- Mounts indoors
- Powers indoor or outdoor fixtures and other critical loads.



Backing up egress linear fixtures and outdoor HID wallpacks

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

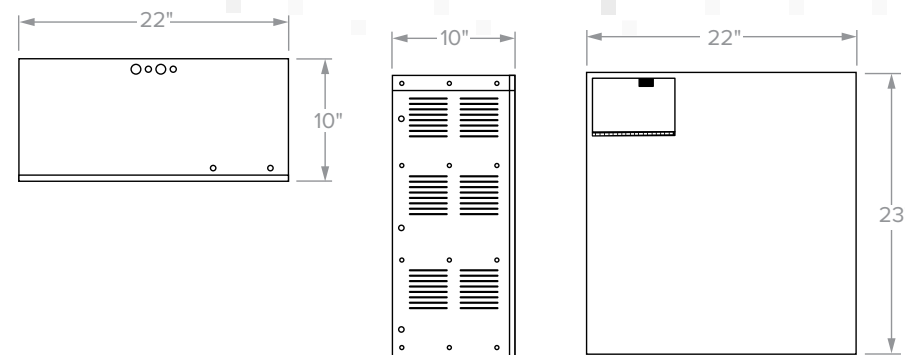
The Synchron inverter system has one of the smallest footprints in the industry – less than 3 square feet!

GENERATION II STATUS & CONTROL INTERFACE

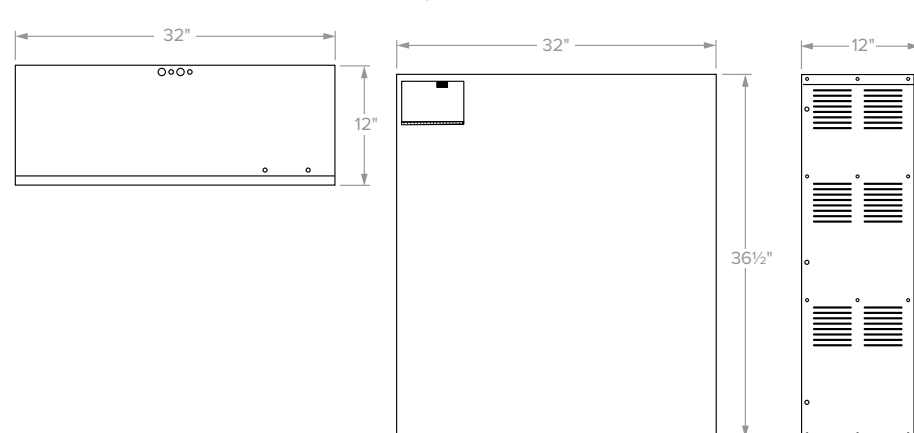
Three multipurpose LED indicators provide a simple, intuitive interface to notify the user of operating status malfunctions.

DIMENSIONS

400VA to 525VA Models (can be wall mounted)



750VA to 2100VA Models (floor mount only)



SPECIFICATIONS

VA/Watts	400	525	750	1000	1500	2100
Power Factor Range	.8 lead to .75 lag					
Input/Output Voltage	120/120 or 277/277VAC ±10%					
AC Input Circuit Breaker Rating 120/277V	6/3A	7/3A	10/5A	13/6A	20/8A	25/10A
Charger Size	2 Amps					
System DC Voltage	36	36	72	72	72	96
Cabinet Size	22"W x 23"H x 10"D (55.9cmW x 58.4cmH x 25.4cmD)			32"W x 36.5"H x 12"D (81.3cmW x 92.7cmH x 30.5cmD)		
BTU/Hour - Line/Inverter	70/260	92/341	131/382	175/510	263/765	368/886
Weight [lbs. (kg) - including batteries]	143 (65.1)	173 (78.8)	281 (128)	346 (157.6)	400 (182.2)	480 (218.7)

ORDERING GUIDE

DLS	Model	Capacity Rating	Input/Output Voltage (VAC)	Output Circuit Breaker Type	Output Circuit Breaker Voltage Rating	Output Circuit Breaker Ampere Rating	Output Circuit Breaker Quantity ^{2,6,7}	Output Circuit Breaker Supervision ²
DLS	Single Phase Central Lighting Inverter	400 525 750 1000 1500 2100	120 277	Blank Normally On N Normally Off ^{3,4,5}	A 120VAC B 277VAC	15 20 25 30	01 to 10	Blank Monitored U Unmonitored

Notes:

- 1 Output Circuit Breakers
 - 400VA and 525VA models: Supplied standard with one 15 amp normally-on output circuit breaker only
 - 750VA through 2100VA models: Output circuit breakers are optional
- 2 A maximum of 6 monitored or 10 unmonitored normally-on circuit breakers may be specified
- 3 A maximum of 4 normally-off circuit breakers may be specified
- 4 Maximum rating of normally-off circuit breakers is 20 amperes
- 5 Normally-off output circuit breakers include a built-in, 15 minute retransfer delay to accommodate HID lighting loads
- 6 Total quantity of monitored normally-off and normally-on breakers cannot exceed 6
- 7 Total quantity of unmonitored normally-off and normally-on breakers cannot exceed 10

LSN 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.

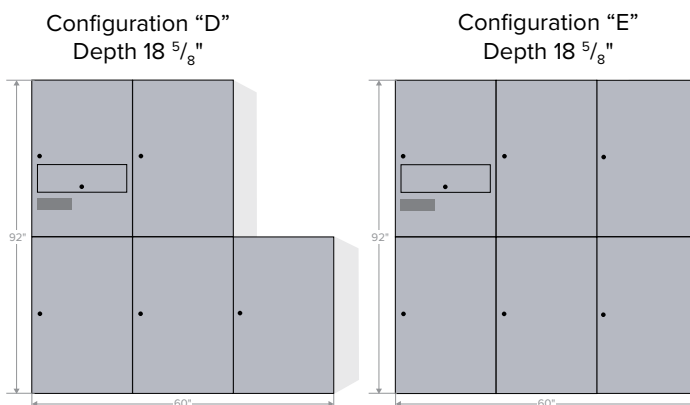
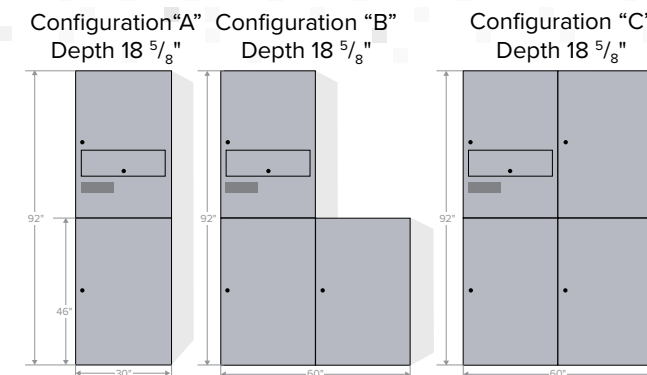
GENERATION III STATUS & CONTROL INTERFACE

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	Battery Type	Output Voltage (VAC) ^{2,3,4}	Output Circuit Breaker Type	Output Circuit Breaker Voltage Rating	Output Circuit Breaker Ampere Rating ⁶	Output Circuit Breaker Quantity ⁷	Output Circuit Breaker Supervision
D	LSN Central Lighting Inverter	120	1.0KVA	S 10-year VRLA Lead-Calcium G 20-year VRLA Lead-Calcium N 25-year Nickel Cadmium	120	Blank Normally On N Normally Off	A 120VAC	15	01 - 20	Blank Monitored U Unmonitored
		208	2.0KVA		120/208		B 240VAC	30		
		240	2.7KVA		120/240 ⁵		C 277VAC	50		
		277	3.7KVA		120/277		D 208VAC	20		
		347	4.8KVA		277			35		
			5.5KVA		347			60		
			6.6KVA					25		
			8.3KVA					40		
			10.0KVA					80		
			12.5KVA							
			15.0KVA ¹							
			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.
- 9 Available with 1.0, 2.0, 2.7, 3.7, 5.5, and 6.6KVA Series with S batteries only.
- 10 Available on 1.0 KVA - 4.8KVA Series.
- 11 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.
- 12 Type S Battery in standard height cabinet only; See system configuration for 90-minute run time.
- 13 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.



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.



Powering all interior and exterior egress lighting and EXIT signs on all three phases for the entire building.

FEATURES & BENEFITS

DOUBLE CONVERSION TECHNOLOGY

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

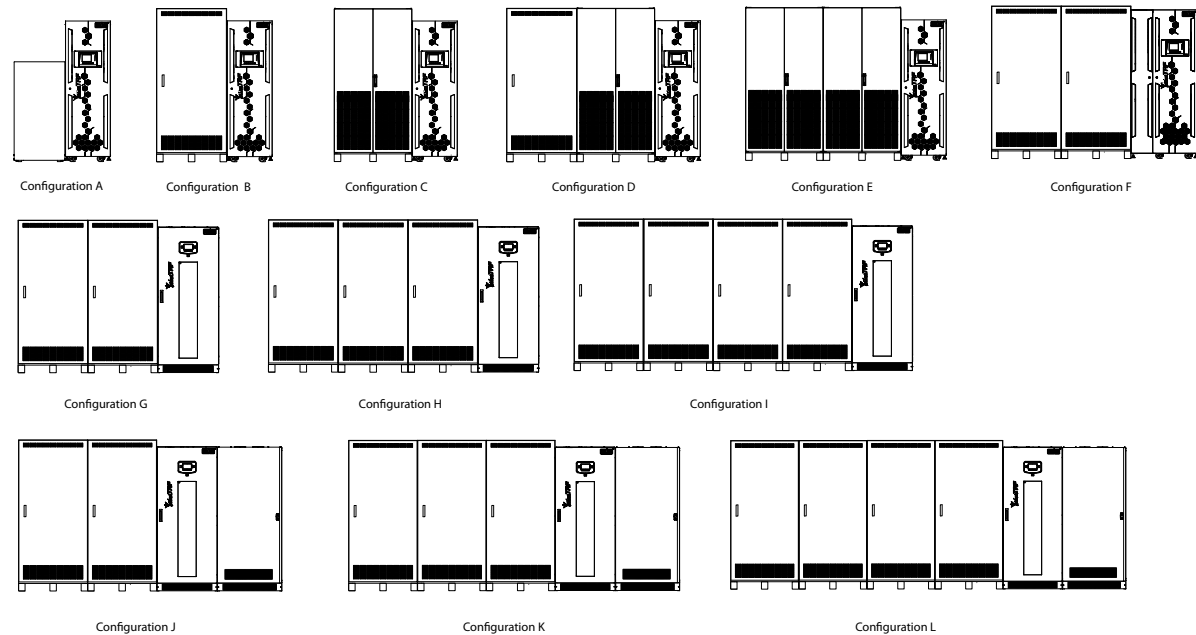
ADVANCED REMOTE COMMUNICATIONS

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 parameters.

CABINET CONFIGURATIONS



ORDERING GUIDE

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

Notes:

- 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
- 6 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

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

FEATURES & OPTIONS COMPARISON



FEATURES	LightPower	LiteGear®	Synchron	LSN	Trident
Power Capacity	20 - 55 VA	125-600 VA	400-2100 VA	1.0-17.5 KVA	10-125 KVA
Input Voltage	120,277 VAC	120,277 VAC	120,277 VAC	120-347 VAC	120, 208, 277, 480 VAC
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 LG250/375/600	•	•	•
Automatic & Programmable Test Recording	•	•	•	•	•
Local Switch Bypass	•	•	•	•	•
Double Conversion Technology	•	•	•	•	•
NEMA 3R Cabinet	•	•	•	•	On Request
STATUS & CONTROL 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 MOUNTING OPTIONS					
Recessed Ceiling	•	LG125	•	•	•
Recessed Wall	•	LG125	•	•	•
Wall	•	•	•	•	•
Floor	•	•	•	•	•
Pole	•	•	•	•	•
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:

277 VAC x 1.1 Amps x 12 fixtures x 1.25 Safety Factor = 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:

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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