Catalog Number	
Comments	Type

LIGHTPOWER™

FEATURES

Application

Designed for indoor installation in commercial or industrial applications, LIGHTPOWER**™** Series micro inverter systems 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. Ceiling T-Grid mount models approved for use in City of Chicago.

Operation

When normal utility supplied power is interrupted, the LIGHTPOWER**™** Series unit will automatically transfer to emergency mode in less than 1-second and begin supplying pure sinusoidal AC power to the load for 90 minutes. The unit is capable of operating normally on, normally off, or switched loads. A low voltage battery disconnect circuit will prevent "deep discharge" damage to the battery. AC lockout prevents battery discharge prior to initial unit power-up. The charging circuit will bring the batteries to full recharge within UL time standards. A "brownout" circuit will automatically transfer the unit to emergency power if the utility voltage falls to a predetermined "low line" limit.

Construction

The LIGHTPOWER**™** enclosure and cover are constructed of heavy-duty, 20 gauge steel with a white powder-coat paint finish.

Compliances

UL 924 (Emergency Lighting)
UL 2043 (Plenum Air Handling Spaces) and City of Chicago (CCEA)
    for T-Grid Models
Life Safety Code (NFPA 101)
National Electrical Code (NFPA 70)
OSHA, State and Local Code compliant

Warranty

Unit and Electronics: 3 years full*
Batteries: SLA Lead Calcium: 3 years full, 7 years pro-rata
        Nickel Cadmium: 2 years full, 13 years pro-rata
            *excludes fuses

Batteries must be connected to an energized charging circuit within 90 days from date of shipment or warranty is void.

Surface Mount Model

Recessed Wall Mount Model

Recessed Ceiling Mount T-Grid Model

ORDERING GUIDE

LPS —

Model	Capacity		Mounting	
	20	20 VA/W [1]	**S**	Surface Wall
	32	32 VA/W [2]	**R**	Recessed Wall
	35	35 VA/W [1]	**T**	Recessed Ceiling T-Grid
	55	55 VA/W [2]		

Ordering Notes:
[1] Nickel-Cadmium battery type
[2] Lead Calcium battery type

ACCESSORIES *(order separately)*

RTSLP   Remote Test Switch for LPS

SPECIFICATIONS

Electronics

Input/Output: 120/120VAC or 277/277VAC, 60 Hz

Input/Output Connections: Terminal block

Operating Temperature Range: 20°C to 30°C (68°F to 86°F)

Charger Type: Temperature compensated, dual-mode

AC Lockout: Prevents battery discharge following installation when branch circuit AC power is not present.

Low Voltage Battery Disconnect: Protects the battery from damaging "deep discharge" conditions during prolonged power failures.

Brownout Protection: Automatically transfers to emergency power when utility voltage drops to a point that would cause fluorescent lamps to extinguish.

Overload and Short Circuit Protection: AC and DC protection provided by fuses and automatic shut down.

Test Means: Manual "TEST" button.

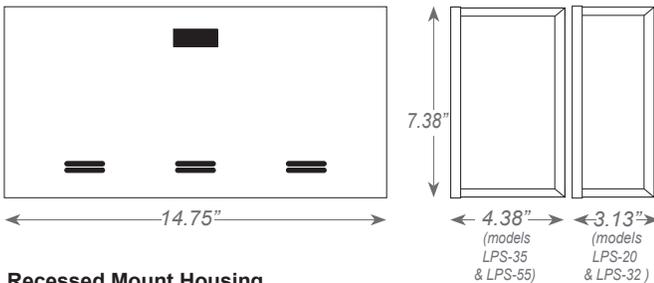LED Indicators: "AC-ON" (red), "Charging-ON" (green), "Inverter-ON" (amber).

Batteries

LPS32/LPS55: SLA lead calcium with 10 year rated life.
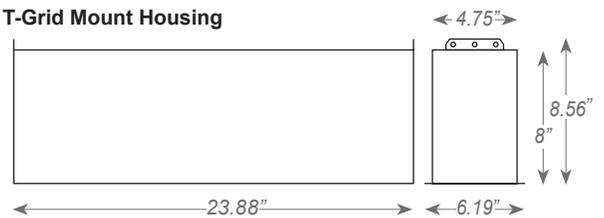LPS20/LPS35: Nickel-Cadmium with 15 year rated life.

	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

7.38"

14.75"

← 4.38" → *(models LPS-35 & LPS-55)*

← 3.13" → *(models LPS-20 & LPS-32)*

Recessed Mount Housing

8.88"

16.25"

.50 Protrusion from wall after installation

Ceiling T-Grid Mount Housing

← 4.75" →

8.56"

8"

23.88"

← 6.19" →