DL3R Series

Single Phase Outdoor Central Lighting Inverter

Catalog Number	
Comments	Type

FEATURES

Application
Designed for outdoor installation in commercial, industrial, and public applications.

Operation
When normal utility-supplied power is present, the DL3R central lighting inverter allows utility power to pass through to the connected load and charges the system batteries as required. When utility-supplied power is interrupted, the system will automatically and instantaneously transfer to emergency mode without interruption to connected loads. DC battery-derived emergency power is inverted to AC power and supplied in a pure sine wave output form for 90 minutes. A low voltage battery disconnect circuit prevents “deep discharge” damage to the batteries during prolonged power outages. When normal power is restored the system will automatically restart, providing power to connected loads and recharging the batteries. The charging circuit will bring the batteries to full recharge within UL time standards.

Construction
The DL3R cabinet has a NEMA 3R rated, grey powder coated steel cabinet. Standard pole mount configuration; front access. Door is pad-lockable.

Compliances
UL924 Listed
NEMA 3R
NFPA 101 Life Safety Code
NFPA 70 National Electrical Code
Made in the U.S.A.

Warranty
Unit and Electronics: 1 year full
Battery: 1 year full; 10 years prorated

ORDERING GUIDE

DL3R - ____ - ____ - ____ - ____

Model	Input Voltage(VAC)[1]	Capacity Rating(VA/W)	Output Voltage(VAC)	Options
	120	**875**	**277**	**SKP** System Key Pad
	208	**1750**		**HTR** Battery Heater
	240			**FLR** Floor Mount Configuration
	277			**FS** Factory Startup + 2 Year Unit Warranty
	347			
	480			

[1] 120 VAC must be supplied in addition to the main input to enable output, allowing for switched output control

HUBBELL Lighting

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SPECIFICATIONS

VA/W	875						1750					
Power Factor Range	0.5 lead to 0.5 lag											
Input Voltage	120, 208, 240, 277, 347, or 480											
Output Voltage	277											
Recommended Feed Circuit Breaker Rating	120 VAC	208 VAC	240 VAC	277 VAC	347 VAC	480 VAC	120 VAC	208 VAC	240 VAC	277 VAC	347 VAC	480 VAC
	15 A	15 A	10 A	10 A	10 A	10 A	25 A	15 A	15 A	10 A	10 A	10 A
Maximum Input Current	10 A	6 A	5 A	4 A	4 A	3 A	19 A	11 A	10 A	8 A	7 A	5 A
System DC Voltage	24											
Cabinet Size (cm)	16"W x 46.1"H x 9.3"D (40.6 W x 117.1 H x 23.6 D)						19"W x 50.8"H x 14.4"D (48.3 W x 128.9 H x 36.5 D)					
System Weight Lb (kg)	390 (177)						596 (271)					

Electronics

Input Frequency: 60 Hz, ± 3%
Input Harmonic Distortion: < 10%
Output Power Factor allowed to unity (VA=W)
Output Harmonic Distortion: < 3% THD for linear load
Output Frequency: 60 Hz, ± .05 Hz during emergency mode
Output Wave Form: Sinusoidal
Output Control: 120 VAC Input Enable1
Design: Line Interactive PWM utilizing MOSFET tech; 2 ms transfer
Synchronizing Slew Rate: 1 Hz/sec nominal
Overload Rating: 115% for 10 minutes; 125% for 12 line cycles
Status Indicator: Normal, Emergency, Fault
Remote Communication: RS232
Compatibility: Magnetic and electronic ballasts; incandescent, LED, fluorescent, compact fluorescent and HID lamps
Optional System Key Pad: Microprocessor controlled; 4 x 20 character VFD display with touch pad controls, functions, and scrolling system status; local surface mount

Battery

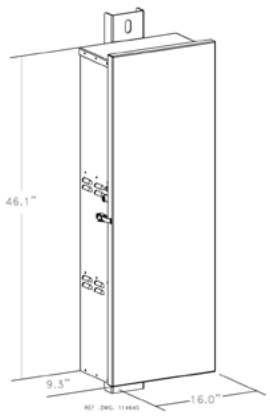
Type: Valve-regulated sealed lead-calcium; 10 year rated life
Charger: Temperature compensating; recharge within UL 924 specifications
Disconnect: Fuse
Discharge Protection: Low Voltage Disconnect (LVD)

Environmental

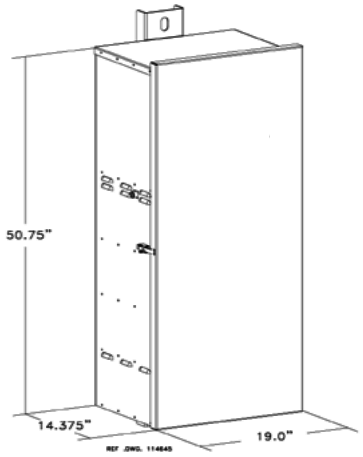
Temperature Range: 0°- 50° C standard; -20°-50° C with Heater Option
Relative Humidity: < 95% (non-condensing)
Cooling: Forced air; temperature controlled fan
Heater Option: Temperature RTD sensor controlled to maintain batteries @ 25°C

DIMENSIONS

875W



1750W



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