



Centralized Lighting Inverter

Catalog Number
Notes
Type

APPLICATION

- Operates LED, incandescent, magnetic and electronic ballast fluorescent, high power factor compact fluorescent and high intensity discharge (HID) luminaires.
- Schools, Sports Facilities, Universities, Mass Transit, Warehouses.
- Provides conditioned, uninterruptible power for other types of critical loads.
- Consult factory for non-lighting load applications.

SAFETY LISTINGS

- UL 924 Emergency Lighting Equipment.
- UL 924 Auxiliary Lighting Equipment.
- NFPA 101 - NFPA 111
- NEC

WARRANTY

- Standard warranty: (requires execution of factory start-up within 120 days of shipment) Brite Path will provide parts and on-site labor for the first 12 months following start-up of the product, and parts only for an additional 12 months. If factory start-up is not executed within 120 days of shipment, Brite Path will provide a parts warranty for 24 months from the date of shipment.
- Factory Start-Up Service included.
- Extended warranty available: consult factory for extended warranty and service option.

DESIGN

- Free standing, NEMA 1 enclosure with lockable control access panel, powder coat finish with top access for conduit entries.
- Double conversion, no interruption output.
- Solid state pulse width modulated inverter.
- Internal, automatic static bypass switch.
- Internal, make before break maintenance by-pass.
- Standard, UL 924 compliant, 90 minute battery back up.
- Microprocessor control and diagnostic system.
- LCD Color touch screen display.
- User programmable automatic testing / logging.
- It is compatible with all luminaires and has a peak overload capability of 1700% to accommodate in-rush current from LED luminaires.
- Overload rating 110% for 2 minutes, 150% for 10 seconds, 400% for 4 cycles (without use of static bypass).
- RS 232 Communications Port.
- Fault annunciating local audible alarm.
- Optional output circuit breakers and circuit breakers with trip alarm
- Optional normally off load.
- Optional Web Based Communications.
- Optional Seismic certification.
- Optional Relay contacts.
- 90% typical efficiency.
- Operating temperature range 68°F (20°C) to 95°F (35°C)1.
- Storage temperature -4°F (-20°C) to 122°F (50°C).
- Optional fault current rating 65 kAIC.

ORDERING INFORMATION

Example: PS3 G45S N2ATH50

PS3

Series	Vin / Vout	Unit Size	Battery Time	OCB Distribution	OCB Distribution	Seismic Rated	WebBased Communications	Relay Contacts
PS3 - BritePath Lighting Three Phase Inverter System	F - 208/120Vin-Vout G - 480/277Vin - Vout	40 - 40 kVA 45 - 45kVA 50 - 50kVA 55 - 55kVA	S - 90 min R - Other	EXAMPLE N 2 A T H 50	IF NEEDED	Z - Seismic Rated (blank) - N/A	W - TCP/IP Modbus TCP Modbus RS45 BACnet / IP BACnet MS / TP (blank) - N/A	R - Relay Card (blank) - N/A

OUTPUT TYPE	QUANTITY	Trip Alarm	Pole	Volts	Amps
N=NORMAL ON	M - Output Main	N=No Alarm (up to 4)	T=3P	(blank) - N/A	(blank) - N/A
T=TIMED NORMAL OFF	1 - 4	A=Trip Alarm (up to 4)		E=208 H=480	50 80 150



ELECTRICAL INPUT

- Input Voltage: 208Y/120V or 480Y/277V
- 3 Phase, 4 Wire + ground input
- Input voltage operating range +10 / -15%
- Frequency range 60 Hz, ± 2.5 Hz.
- Input harmonic current distortion < 10% THD.
- Input power factor correcting to 0.98.

ELECTRICAL OUTPUT

- Output Voltage: 208Y/120V or 480Y/277V
- 3 Phase, 4 Wire + ground output
- Output voltage regulation +/-3%
- Frequency range 60 Hz, ± 0.5 % in battery mode.
- Output voltage distortion: 3% max THD with linear load.

BATTERY

- Maintenance free, valve regulated, sealed lead calcium battery with a design life up to 10 years, and optimum operating range of 65°F (19°C) to 85°F (30°C).¹
- 3 Stage, temperature compensated charger, 1% ripple.
- Automatic low battery voltage disconnect.
- Recharge time UL924 / NFPA101 / NFPA 111 compliant.
- Front access terminals.
- Ripple voltage < 1% rms float voltage.
- Battery warranty is 1 year full / 9 years pro-rated.

Footnote

¹ Optimum operating temperature of batteries is 77°F (25°C). Temperatures above 85°F (30°C) adversely impact battery life.

System input/output

Rating	Voltage In/Out	Max Input Amps ¹	Max Output Amps per phase ²	BTU / Hour	Weight (Lbs)	Cabinet Configuration
40	208/120	163	111	19096	10726	E
40	480/277	71	48	13640	9340	D
45	208/120	183	125	21483	11686	E
45	480/277	80	54	15345	10300	D
50	208/120	204	139	23870	12250	E
50	480/277	89	60	17050	10780	D
55	208/120	224	153	26257	12730	E
55	480/277	97	66	18755	11260	D

¹ Continuous duty ² Consult factory for current ratings for voltage configurations not shown above.

Dimensions



Cabinet configuration D

Width – 126"

- Electronics cabinet – 44"
- First battery cabinet – 41"
- Second battery cabinet – 41"

Height – 77"

Depth – 33"



Cabinet configuration E

Width – 155"

- Distribution cabinet – 29"
- Electronics cabinet – 44"
- First battery cabinet – 41"
- Second battery cabinet – 41"

Height – 77"

Depth – 33"