AC Power Systems



Catalog Numbe Notes Туре

APPLICATION

- · Operates LED, incandescent, magnetic and electronic ballast fluorescent, high power factor compact fluorescent and high intensity discharge (HID) luminaries.
- 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

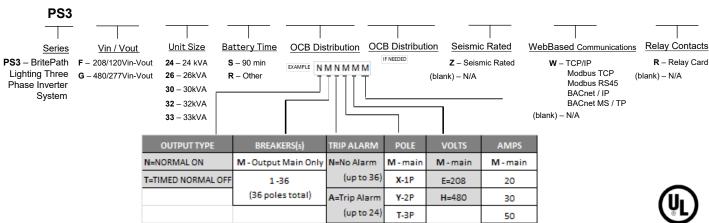
WARRANTY

- 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.
- 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 F30S NMNMMMZ

Three Phase Centralized Lighting Inverter 24-33KVA

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 Hz. 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

24	208/120	85.5	66.6	11458	5940	С
24	480/277	35.3	28.9	8184	5502	С
26	208/120	92.5	72.2	12412	6267	С
26	480/277	38.2	31.2	8866	5508	С
30	208/120	104.4	83.3	14322	6659	С
30	480/277	43.1	36.1	10230	5900	С
32	208/120	111.4	88.8	15277	6959	С
32	480/277	45.9	38.5	10912	6200	С
33	208/120	115.1	91.6	15754	7259	С
33	480/277	47.3	39.7	11253	6200	С

¹ Continuous duty

Dimensions



Cabinet configuration C

Width* - 70"

Electronics cabinet – 29" Battery cabinet – 41"

Height - 77"

Depth - 33"

 $^{^{\}rm 2}$ Consult factory for current ratings for voltage configurations not shown above.

^{*}Adding output circuit breaker (OCB) options increases total width by 14"