

| Catalog Number | | | |
|-------------------|--|--|--|
| Notes | | | |
| Туре | | | |

AC Power Systems Three Phase 40-55kVA

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.

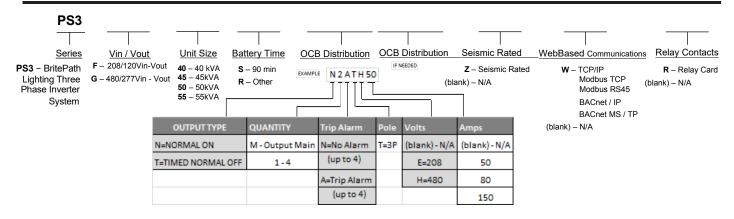
DESIGN

- Free standing, NEMA 1 enclosure with lockable control access panel, 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.

Example: PS3 G45S N2ATH50

- Storage temperature -4°F (-20°C) to 122°F (50°C).
- · Optional fault current rating 65 kAIC.

ORDERING INFORMATION



Three Phase Centralized Lighting Inverter 40-55kVA

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"