

Catalog Number			
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

#### WARRANTY

- Standard warranty: (requires execution of factory start-up within 120 days of shipment) BritePath 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, BritePath will provide a parts warranty for 24 months from the date of shipment.
- Extended warranty available: consult factory for extended warranty and service option.

# AC Power Systems Single Phase 4,200VA

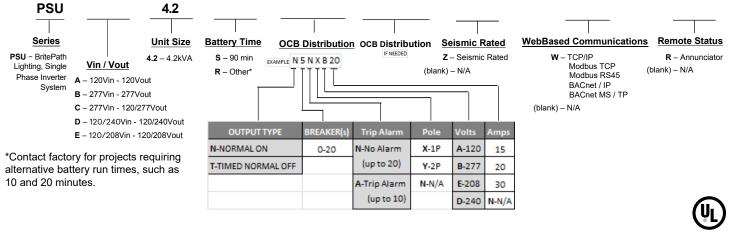
PSU



#### 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.
- · RS 232 Communications Port.
- Fault annunciating local audible alarm.
- · Normally open contacts for status & alarm communications
- Current limiting start sequence.
- Automatic low battery voltage disconnect.
- · Optional output circuit breakers and circuit breakers with trip alarm
- · Optional normally off load with time delay.
- · Optional Web Based Communications.
- Optional Seismic certification.
- · Optional Remote Annunciator.
- 87% throughput efficiency, 85% emergency efficiency.
- Operating temperature range 32°F (0°C) to 104°F (40°C)1.
- Storage temperature -4°F (-20°C) to 122°F (50°C).
- · Fault current rating 42 kAIC.
- Audible noise less than 50 dB at 3 ft on "A" weighted scale.

#### Example: PSU B4.2S N5NXB20 W



# **ORDERING INFORMATION**

#### **ELECTRICAL - INPUT**

- Input voltage operating range +10 / -15%
- Input power factor correcting to 0.99.
- Frequency range 60 Hz, ±2.5 Hz.
- Input harmonic current distortion < 5% THD.
- UL1449, ANSI/IEEE C62.41 surge suppression.

# **ELECTRICAL - OUTPUT**

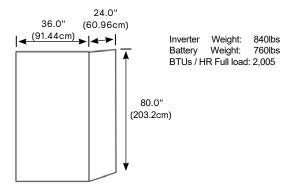
- Sine wave output.
- Voltage regulation ±2%.
- + Frequency regulation synchronized to utility , free running 60 Hz ,  $\pm 0.5\%$  .
- Output voltage distortion maximum 3% THD with linear load.
- Load power factor capability 0.7 lead to 0.7 lag.
- Overload capability 125% for 10 seconds.

Vin	Input Breaker	Input Amps	Vout	Output Amps
120V	70A	48A	120V	35A
277V	30A	21A	277V	15.2A
120/240	/ 40A	24.3A	120/240	V 35 / 17.5A
120/208	/ 40A	28A	120/208	V 35 / 20.2A
			120/277	V 35 / 15.2A

### BATTERY

- Maintenance free, 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).<sup>1</sup>
- 4 Stage, temperature compensated charger, 1% ripple.
- Recharge time UL924 / NFPA101 compliant (24 hours).
- · Bus voltage 120VDC.

#### DIMENSIONS



#### Footnote

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

#### **Check List**

Catalog No:							
VA Rating:							
Battery Type: Maintenance free, Sealed Lead Calcium							
Operating Time: <u>90</u> Min.							
Input: VAC, Single Phase							
Output: VAC, Single Phase							
Output Circuit Breakers:	Normally	Timed Normally	Trip Alarm				
Qty:AC Volts: Amps:		OFF	YES NO				
Qty:AC Volts: Amps:		OFF	YES NO				
Qty:AC Volts: Amps:		OFF	YES NO				
Qty:AC Volts: Amps:	ON 🗌	OFF	YES NO				
On Site Factory Start Up (FSU) included							
Optional Extended Warranty (EXT): Yes No							
Description:							
(FSU) Factory Start-Up: Includes on site start up by factory authorized technician, system training and demonstration during							
same site visit. Also provides 12 months of on site warranty service.							
OPTIONAL (EXT) Extended Warranty: Will increase FSU on site, 12 month warranty period to a 24 month warranty period.							

