

THREE PHASE POWER DISTRIBUTION UNIT
HIGH CAPACITY BUILT-IN POWER DISTRIBUTION
(UP TO SIX 42-POLE PANELBOARDS) WITH MONITORING

POWER PAL
15 TO 450 kVA



APPLICATIONS

COMPUTER ROOM
 SCHOOLS
 HOSPITALS
 CHURCHES

CITY HALL
 LIBRARY
 FIRE STATION
 SHOPPING CENTER
 MALLS

RESTAURANTS
 MEDICAL EQUIP.
 PRINTING EQUIP.
 MACHINE SHOP
 SERVICE STATION

A Big Problem

Does it seem sometimes like downtime is occurring all the time? Its no wonder! Today's sophisticated circuits cannot digest a diet of the same raw utility power that fed yesterday's equipment.

Natural Selection

In the utility jungle of sags, surges, cable-induced noise, RF interference, and voltage spikes, one need not be a victim. Today's rough and wild electrical environment has given rise to the natural selection of OnLine Power's isolating and power distribution unit. Raw and dirty power can now be cleaned, tamed, and efficiently distributed.

Perfect Solution

OnLine Power products stand out from the herd of "me-too" units because they are delivered sooner, last longer, and cost less. Our no-nonsense design philosophy is backed up by an experienced, fully qualified field service team.

Modular Construction

The Power-Pal is modular in construction, which permits it to be easily expanded and field upgraded. As many as 2 side car distribution centers can be added. Thus the number of output circuit breakers can be tripled from 84 to 252 in the smallest footprint available in today's marketplace.

The distribution centers, offered by OnLine Power can be configured with most panelboards currently being manufactured. This

makes it possible to match the panelboards which you may already have installed, thus reducing the number of different breakers your facilities engineer or electrician has to keep on site. Saving you time and money, these products can also be configured with main output breakers to directly feed individual devices.

Design Details

Attention to detail is evidenced by the gold anodized plating applied to exposed internal surfaces, offering increased corrosion resistance and longer life. Every unit is stringently calibrated at the factory and must pass exhaustive quality control tests before it can be shipped.

The heart of any Power Distribution Unit is its transformer. Besides pumping out at least 96% of the energy it receives, OnLine Power's transformers are built to maintain their high efficiency rating for at least 20 years of continuous operation. Its fail-safe convection-cooled design is augmented by temperature sensors.

A two-stage alarm (audible and shunt trip) warns operators of, and protects the transformer from, harmful operating temperatures.

Total physical separation between primary and secondary circuits is designed into the unit. From the shielded transformer to the conduit, all input and output power is isolated. This design principle, along with primary and secondary filters and spike suppression systems, aids in common and normal mode noise immunity.

UL Listed

High Efficiency (>96%)

System Monitoring Panel

Built-in Distribution

High Isolation

Overload Protection

Output Conduit Landing Bracket

Remote Distribution Capability

Easy to Install

Swivel Caster and Leveling

Small Foot Prints

1 Year On-site Warranty

POWER PAL SPECIFICATIONS

Sizes: 15, 30, 50, 75, 100, 125, 200, 225, 250, 300, 350, 400, and 450 kVA

Input Voltage*: 208 or 480 VAC

Output Voltage*: 208 Y/120 VAC

Frequency*: 60 Hz \pm 5%

Harmonic Distortion: 1% max. added

Audible Noise: Meets or exceeds NEMA standard

Common-Mode: -120 dB

Normal-Mode: -40 dB/decade

Overload (Inrush): 200% of full load for 10 seconds
 1000% of full load for 1 cycle

Efficiency: >96%

Load Power Factor: 0.3 leading or lagging to unity

Transformer: 3 phase computer grade dual-shielded, isolation transformer

Transformer Impedance: 2.5 to 5% standard

Cooling: Convection

Environmental:

 Operating Temperature 32°F (0°C) to 104°F (40°C)

 Operating Humidity 10 to 90% non-condensing

Dimension: Main Unit: 73"H 34"W 34"D
 Side Car: 73"H 34"W 11"D

STANDARD FEATURES

- Caster Based, Leveling Pad, Small Footprint Cabinet
- Three Phase, Dual-Shielded Computer Grade Isolation Transformer
- RS232 and RS485
- Tiered Output Conduit Landing Bracket
- Main Input Circuit Breaker with Shunt Trip
- Square D snap-on/bolt-on 42 Pole Panelboard with Secondary Over-current Circuit Breaker
- Remote Emergency Power Off Connector
- Local Emergency Power Off Switch (EPO)
- **Output System Status Panel**
Monitoring; RMS Metering, Output Voltage (Phase to Phase, Phase to Neutral), Output Current, Output Neutral Current, kVA, Under Voltage, Over Voltage, Phase Rotation, Phase Loss, First Stage Temperature Alarm, Second Stage Temperature Shut-Off, EPO Tripped, and 8 Optional External Ports.

OPTIONS

- High Isolation Transformer with Harmonic Reduction (up to K-50)
- Remote Emergency Power Off (REPO) Station with 50 ft Cable
- Thermal Remote Emergency Power Off Station
- Transient Suppression Plate
- Input Three Phase Power Connector
- Secondary Surge Suppression
- Manual Restart
- Secondary Output Main Circuit Breaker
- Input/Output System Status Panel (standard)
- Input/Output advanced metering system
- A/C Shut-Down Relay (Momentary or Latching)
- Ground Integrity Monitor
- Output Filter (-60 dB/decade)
- Field Wired Junction Box
- Non-standard Panelboard without C/B
- Non-standard Panelboard with C/B
- Special Paint
- Seismic Brackets
- 10 ft. Input Cable
- Side Car for Panelboard Expansion
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- Spare Part Kits Available

UNIT SIZE (kVA)	INPUT VOLTAGE (VAC)	OUTPUT VOLTAGE (VAC)	MODEL NUMBERS	WEIGHT S (LBS)	A/C LOAD (TONS)	BTUs/HR
15	208	208Y/120	NP015B0500I3-K1	500	0.13	1,535
	480		NP015H0500I3-K1			
30	208		NP030B0500I3-K1	650	0.26	3,071
	480		NP030H0500I3-K1			
50	208		NP050B0500I3-K1	910	0.43	5,120
	480		NP050H0500I3-K1			
75	208		NP075B0500I3-K1	1,030	0.64	7,679
	480		NP075H0500I3-K1			
100	208		NP100B0500I3-K1	1,350	0.85	10,239
	480		NP100H0500I3-K1	1,150		
125	208		NP125B0500I3-K1	1,600	1.07	12,799
	480		NP125H0500I3-K1	1,245		
150	208		NP150B0500I3-K1	2,075	1.28	15,359
	480		NP150H0500I3-K1	1,675		
200	208		NP200B0500I3-K1	2,300	1.70	20,478
	480		NP200H0500I3-K1	1,820		
225	208		NP225B0500I3-K1	2,600	1.92	23,038
	480		NP225H0500I3-K1	2,180		
250	208		NP250B0500I3-K1	2,900	2.13	25,598
	480		NP250H0500I3-K1	2,400		
300	208		NP300B0500I3-K1	3,500	2.56	30,717
	480		NP300H0500I3-K1	2,900		
*350	208		NP350B0500I3-K1	Consult Factory		
	480		NP350H0500I3-K1			
*400	208	NP400B0500I3-K1				
	480	NP400H0500I3-K1				
**450	208	NP450B0500I3-K1				
	480	NP450H0500I3-K1				

* Consult Factory for other Voltages and Frequencies.
 ** Consult Factory for units larger than 300 kVA

Specifications are subject to change without prior notification.



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