

**THREE PHASE POWER DISTRIBUTION UNIT
WITH VOLTAGE REGULATION, MONITORING, AND
BUILT-IN DISTRIBUTION, UP TO SIX 42-POLE PANELBOARDS**

**POWER PAC
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 equipment in recent years.

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 isolation/regulation power conditioners. Raw, dirty, and fluctuating power can now be cleaned, tamed, and efficiently distributed with full monitoring of output power.

Modular Construction

The Power-Pac 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 into this model. Thus the number of output circuit breakers can be tripled from 84 to 252 to make it the smallest footprint available in today's marketplace.

The distribution center is specially designed for the Power-Pac with Square D snap-on/bolt-on panelboards. As an option, the Power-Pac 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, this product can also be configured with main output breakers to directly feed individual devices or an existing panelboard.

Pays for Itself

Annual savings for the largest (450 kVA Power Pac) unit will exceed \$32,000 at 10 cents per kW. The biggest Pac pays for itself in short order!

Perfect Solution

OnLine Power products stand out from the competitor's units because we have faster delivery, last longer, and cost less. Our no-nonsense design philosophy is backed up by an experienced, fully qualified field service team to meet your need.

Design Details

Attention to detail is evidenced by the zinc 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 will 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 transformer is built to maintain its 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

Tight Output
Voltage Regulation ($\pm 3\%$)

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 Warranty

POWER PAC SPECIFICATIONS

Sizes: 15, 30, 50, 75, 100, 125, 175, 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%

Response Time: 1 cycle typical

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

Input Voltage Regulation: +10% to -26% of nominal

Output Voltage Regulation: \pm 3% typ. cycle

Efficiency: >96%

Load Power Factor: 0.3 leading or lagging to unity

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

Transformer Impedance: 3 to 5%

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 Regulating, Dual-Shielded Computer Grade Isolation Transformer
- Tiered Output Conduit Landing Bracket
- Input Filter
- RS232 and RS485
- Regulating Assembly
- Regulation/Isolation Only Switch (Bypasses Regulation Electronics)
- 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.

UNIT SIZE (kVA)	INPUT VOLTAGE (VAC)	OUTPUT VOLTAGE (VAC)	MODEL NUMBERS	WEIGHTS (LBS)	BTUs/HR
15	208	208Y/120	NP015B0500T3-K1	600	2,042
	480		NP015H0500T3-K1		
30	208		NP030B0500T3-K1	750	4,084
	480		NP030H0500T3-K1		
50	208		NP050B0500T3-K1	950	6,810
	480		NP050H0500T3-K1		
75	208		NP075B0500T3-K1	1,275	10,213
	480		NP075H0500T3-K1	1,050	
100	208		NP100B0500T3-K1	1,500	13,618
	480		NP100H0500T3-K1	1,250	
125	208		NP125B0500T3-K1	1,775	17,023
	480		NP125H0500T3-K1	1,420	
150	208		NP150B0500T3-K1	2,250	20,427
	480		NP150H0500T3-K1	1,850	
175	208		NP175B0500T3-K1	2,650	23,750
	480		NP175H0500T3-K1	2,250	
200	208		NP200B0500T3-K1	3,050	26,388
	480		NP200H0500T3-K1	2,700	
225	208		NP225B0500T3-K1	2,300	30,600
	480		NP225H0500T3-K1	2,800	
250	208		NP250B0500T3-K1	3,500	34,000
	480		NP250H0500T3-K1	3,000	
300	208		NP300B0500T3-K1	3,950	40,840
	480		NP300H0500T3-K1	3,150	
**350	208	NP350B0500T3-K1	4,450	45,600	
	480	NP350H0500T3-K1	3,650		
**400	208	NP400B0500T3-K1	4,950	54,470	
	480	NP400H0500T3-K1	4,150		
**450	208	NP450B0500T3-K1	5,500	61,280	
	480	NP450H0500T3-K1	4,700		

OPTIONS

- High Isolation Transformer with Harmonic Reduction (up to K-50)
- Controlled Impedance for Load Regulation (Application of No Load to Full Load)
- 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
- ESI 4 Ports & ESI 8 Ports
- A/C Shut-Down Relay (Momentary or Latching)
- Ground Integrity Monitor
- Output Filter (-60 dB/decade)
- Non-standard Panelboard without C/B
- Non-standard Panelboard with C/B
- Special Paint
- Seismic Brackets
- 10 ft. Input Cable
- Field Wire Junction Box
- 225 Amp Secondary Over-current Protection Breaker
- Certified Zone 4 Seismic Bracket
- Extended Warranty and Service Plans
- Spare Part Kits Available

* Consult Factory for other Voltages and Frequencies.

** Consult Factory for units larger than 300 kVA

Specifications are subject to change without prior notification