

**A Minimum Footprint,
High Capacity Regulator
with Monitoring & Built-
in Distribution, Up to Six
42-Pole Panelboards**



Power Distributor II

Three Regulator with Distribution

- 15 to 450 kVA
- UL Listed
- High Efficiency(>96%)
- Tight Output Voltage Regulation ($\pm 3\%$)
- High Isolation
- Built-In Distribution
- Overload Protection
- Output Conduit Landing Bracket
- Remote Distribution Capability
- Easy to Install
- 2 Year Factory Warranty



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, Crucial 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.

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 Crucial Power's isolation/regulation power conditioners. Raw, dirty, and fluctuating power can now be cleaned, tamed, and efficiently distributed.

Perfect Solution

Crucial 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.

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!

Modular Construction

The Power Distribution 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 Distribution with Square D snap-on/bolt-on panelboards. As an option, the Power Distribution 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.

*A Full Line Power
Protection Company.*

Power Distributor II 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

UNIT SIZE (kVA)	INPUT VOLTAGE (VAC)	OUTPUT VOLTAGE (VAC)	MODEL NUMBER	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		

* Other voltages and Frequencies available - contact factory.
Specifications are subject to change without prior notification.

Standard Features

- **Caster Based, Small Footprint Cabinet**
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- **Three Phase Regulating, Dual-Shielded Computer Grade Isolation Transformer**
- **Tiered Output Conduit Landing Bracket**
- **Input Filter**
- **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, Percent Load per Phase**
- **Alarms; Under Voltage, Over Voltage, Phase Rotation, Phase Loss, First Stage Temperature Shut-Off, Second Stage Temperature Shut-Off, Ground Amps, EPO Tripped, and 8 Optional External Ports for Form C Contact Closures.**

Options

- K-Factor Ratings up to K-50
- Remote Emergency Power Off 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
- 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



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