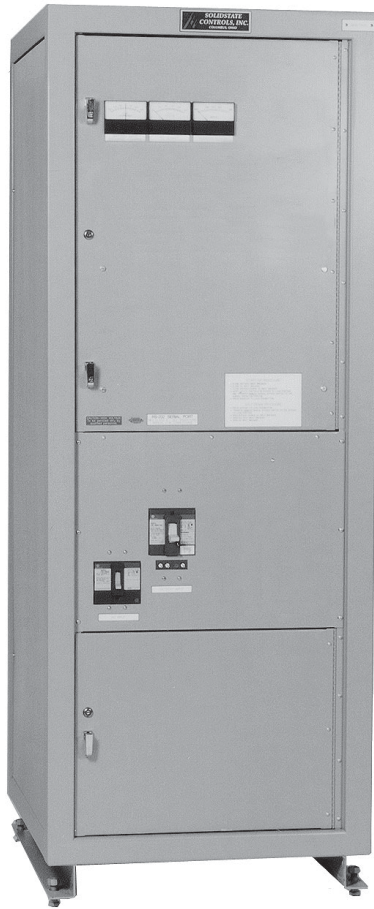


# IPC Series

## Industrial Power Conditioners 10 kVA - 112 kVA



Shown with optional meters and breakers

The IPC Series are industrial power conditioners intended for use in the bypass path of an Uninterruptible Power Supply (UPS) system or as a stand-alone system. Each unit integrates a precision line voltage regulator and a shielded isolation transformer in a single system enclosure.

- ◆ High reliability - exceeds 100,000 hours (11.4 years) MTBF-useful life over 20 years
- ◆ Low audible noise <65dBA
- ◆ High efficiency
- ◆ Compatible with non-linear loads
- ◆ Extended overload capability for downstream fault clearing
- ◆ Industrial grade-built to operate in extreme environmental conditions
- ◆ Expert technicians available for warranty service, start-up service, preventive maintenance programs and on-site training

### Single Phase

Model	kVA	Input Amps <sup>1</sup>			Heat Loss <sup>2</sup> BTU/Hr	Cabinet Dimensions (H x W x D)		Weight Lbs (kg)
		208	240	480		(Inches)	(mm)	
IPC1010	10	82	71	35	2155	78 x 29 x 32	(1987 x 737 x 813)	1076 (488)
IPC1015	15	120	104	52	3070	78 x 29 x 32	(1981 x 737 x 813)	1300 (590)
IPC1020	20	154	133	67	3899	78 x 29 x 32	(1981 x 737 x 813)	1540 (698)
IPC1025	25	197	171	85	4728	78 x 56 x 32	(1981 x 1422 x 813)	1700 (771)
IPC1037	37.5	293	254	127	6477	78 x 56 x 32	(1981 x 1422 x 813)	2170 (984)
IPC1050	50	394	342	171	8003	85 x 56 x 36	(2159 x 1422 x 914)	2600 (1179)
IPC1075	75	591	512	255	11238	85 x 56 x 36	(2159 x 1422 x 914)	3400 (1542)
IPC1100	100	788	683	341	14984	85 x 112 x 36	(2159 x 2844 x 914)	3900 (1769)

### Three Phase

3IPC1015	15	66	58	29	3754	85 x 56 x 36	(2159 x 1422 x 914)	2180 (989)
3IPC1030	30	139	120	36	6464	85 x 56 x 36	(2159 x 1422 x 914)	2800 (1270)
3IPC1045	45	205	178	89	9210	85 x 56 x 36	(2159 x 1422 x 914)	3500 (1587)
3IPC1075	75	342	296	148	14185	85 x 112 x 36	(2159 x 2844 x 914)	4400 (1995)
3IPC1112	112	511	443	221	19430	85 x 112 x 36	(2159 x 2844 x 914)	6000 (2721)

<sup>1</sup>Amps shown for 20% low line.

<sup>2</sup>At 0.8 P.F. Output

Certain optional features and/or combinations may require larger cabinets. Contact factory.

## Voltage Regulator

### AC Input

Voltage: 120,208,220,480VAC  
 Range: +10% to -20%  
 Frequency\*: 60Hz

### AC Output

Voltage: 240, 120VAC, 1 -phase  
 208/120VAC, 3 phase  
 Regulation: ±2%  
 Frequency\*: 60Hz  
 Load Power Factor: 0.8 to 1.0  
 Harmonic Distortion: 5% (or less) THD added  
 Overload: 120% to 1000% fault clearing  
 Voltage Ajustability ±10%

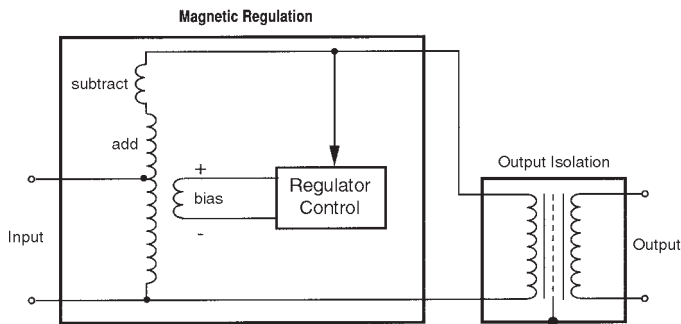
\* 50Hz available, contact factory

## Isolation Transformer

Noise Attenuation: 120dB common mode  
 80dB transverse mode  
 Construction: All Copper windings, double shielded

## Power Conditioner Block Diagrams

### Single-Phase



The **Power Conditioner System** consists of an electronic line voltage regulator, as well as a double shielded transformer working in conjunction with an electronic line voltage regulator.

The **Electronic Line Voltage Regulator** delivers a narrow output voltage band for a wide input voltage range. The closed loop control system automatically compensates for input

## Environmental

Ambient Temp: 0°C to 40°C (32°F to 104°F)  
 Relative Humidity: 0-95% non-condensing  
 Operating Altitude: 0 to 3000 meters (10,000 ft.)  
 Audible Noise: 65-72dB (A) @1.5m typical  
 Addition of drip shield may increase the noise by 1-3dB (A)  
 Cooling: Convection (Forced Air when required)

## Cable Entry

Top or Bottom

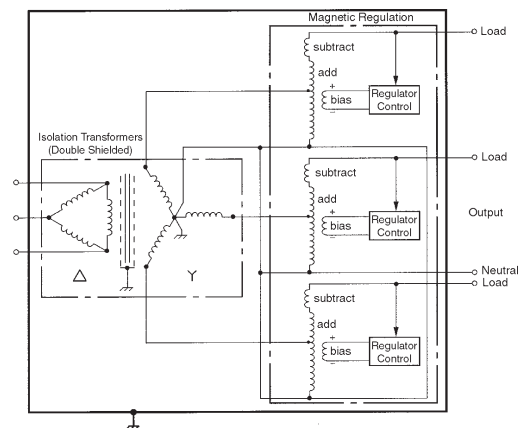
## Efficiency

93-96% at full load

## Optional Features

Circuit Breakers: AC Input  
 AC Output  
 High KAIC Available  
 Meters: Voltmeters  
 Ammeters  
 Frequency Meter

## Three-Phase



voltage variations by electronically altering the magnetic properties of the regulator core to regulate the output voltage.

The **Isolation Transformer** is used to step up or step down the incoming voltage to match the requirements of the voltage regulator. Double shielding is utilized to reduce noise and transients.

Specifications subject to change without notice



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