

# ADVANCED MEDICAL POWER CONDITIONER

COMPUTED TOMOGRAPHY • MAGNETIC RESONANCE IMAGING • NUCLEAR MEDICINE  
DIGITAL SUBTRACTION ANGIOGRAPHY • POSITRON EMISSION TOMOGRAPHY  
RADIOGRAPHIC / FLUOROSCOPIC • CARDIAC CATHETER • MAMMOGRAPHY  
ULTRASOUND • X-RAY

# PHASE STABILIZER 15 TO 1250 KVA



## Medical Power

In medical imaging and therapy, stable power means stable profits. Unfortunately, typical building power sources are never stable. OnLine Power builds an advanced power conditioner designed specifically for the medical industry.

Since the 1980's we have been the premier producer of medical grade power conditioners for medical imaging and therapy applications.

## Prescription for Profitability

The Phase Stabilizer™ medical-grade power conditioner will protect your medical equipment investment against profit-robbing occurrences such as:

- Rescans
- Poor Image Quality
- Patient Reschedules
- System Lock-up & Errors
- Downtime

These unwanted events are caused by common power problems known as noise, spikes, transients, voltage sags, surges and power outages.

Most building power sources are unreliable and vulnerable to power problems. Furthermore, damage due to poor input power is rarely covered by manufacturer's warranties or service contracts.

## Lightning Suppression and Noise Reduction

With built-in lightning and surge suppression, the Phase Stabilizer offers protection against spikes and transients in both common-mode and transverse-mode. The Phase Stabilizer utilizes a multi-shielded transformer in conjunction with semiconductor based clamps, and heavily damped filters to virtually eliminate all electrical noise from critical medical equipment.

## Voltage Regulation

The Phase Stabilizer provides precision voltage regulation. The phase-to-phase voltage will be maintained to a 2% maximum variation and monitored every 16 milliseconds.

The phase-to-phase voltage regulation is maintained through a proprietary combination of tight transformer controls and damping networks even at the high inrush demand of most medical equipment.

## UL Listed

High Efficiency and Isolation

Low Distortion

Single Point Grounding

Phase Imbalance, 2% Max.

Precision Voltage Regulation  
+1.5%

Auto Tap Switching @ Zero  
Crossing Point

Optional Output Distribution

Lightning/Transient  
Suppression

1 Year Warranty

# PHASE STABILIZER SPECIFICATIONS

## Power Rating

15, 30, 50, 75, 100, 125, 150, 175, 200,  
225, 250, 300, 400, 500, 625, 750, 875,  
1000, and 1,250 kVA

## Input Voltage\*

208 or 480 VAC

## Output Voltage\*

208Y/120 or 480Y/277 VAC

## Frequency

50 or 60 Hz,  $\pm 5\%$

## Response Time

1 cycle typical

## Harmonic Distortion

1% max. added at switching

## Audible Noise

<35 dB measured on Response  
Curve "A"

## Common-Mode

-120 dB  $\leq 300$  kVA

## Normal-Mode

-60 dB/decade

## Neutral to Ground

0.5V max. potential

## Overload (Inrush)

200% of full load for 10 second  
1000% of full load for 1 cycle

## Input Voltage Regulation Range

+8% to -10% of nominal

## Output Voltage Regulation Range

$\pm 1.5\%$  typical,  $\pm 2\%$  maximum phase  
imbalance

## Voltage Surges

20% max. above nominal voltage,  
50 milliseconds max. duration

## Voltage Sags

30% max. below nominal voltage,  
20 milliseconds max. duration

## Line Transients

20% above nominal voltage 1/hr. max.

## Efficiency

$\geq 96\%$  at 80% of load

## Load Power Factor

0.3 leading or lagging to unity

## Transformer Type:

$\leq 300$  kVA: 3 phase computer grade,  
dual-shielded, isolation transformer

$> 400$  kVA: 3 phase, copper wound,  
buck-boost transformer

## Transformer Impedance

3 to 5% (low impedance)

## Environmental:

### Operating Temperature

32°(0°C) to 104°F (40°C)

### Operating Humidity

10 to 90% non-condensing

## STANDARD FEATURES

- Caster Based NEMA 1 Indoor Cabinet
- Three Phase Regulating, Multi-Shielded, Copper wound, Medical Grade Transformer
- Input Filter
- Output Filter
- Regulating Assembly
- Regulation/Isolation Only Switch (Bypasses Regulation Electronics)
- Secondary Surge Suppression
- Controlled Impedance

## OPTIONS

- High Isolation Transformer with Harmonic Tolerance (up to K-50)
- Controlled Impedance for Load Regulation (Application of No Load to Full Load)
- Secondary Distribution
- Input Breaker (only available up to 100 kVA)\*

kVA SIZE	INPUT VOLTAGE	MODEL NUMBERS***		WEIGHT S (LBS)	BTUs/HR	CABINET SIZES H" x W" x D"
		208Y/120 OUTPUT VOLT	480Y/277 OUTPUT VOLT			
15	208	PS015B0500T3	PS015B0900T3	400	2,040	42" x 32" x 22"
	480	PS015H0500T3	PS015H0900T3			
30	208	PS030B0500T3	PS030B0900T3	500	4,080	
	480	PS030H0500T3	PS030H0900T3			
50	208	PS050B0500T3	PS050B0900T3	700	6,800	
	480	PS050H0500T3	PS050H0900T3			
75	208	PS075B0500T3	PS075B0900T3	850	10,200	
	480	PS075H0500T3	PS075H0900T3			
100	208	PS100B0500T3	PS100B0900T3	1,250	13,600	
	480	PS100H0500T3	PS100H0900T3	1,000		
125	208	PS125B0500T3	PS125B0900T3	1,400	17,000	
	480	PS125H0500T3	PS125H0900T3	1,100		
150	208	PS150B0500T3	PS150B0900T3	1,500	20,400	
	480	PS150H0500T3	PS150H0900T3	1,200		
175	208	PS175B0500T3	PS175B0900T3	1,700	23,800	
	480	PS175H0500T3	PS175H0900T3	1,400		
200	208	PS200B0500T3	PS200B0900T3	2,000	27,200	
	480	PS200H0500T3	PS200H0900T3	1,500		
225	208	PS225B0500T3	PS225B0900T3	2,250	30,600	
	480	PS225H0500T3	PS225H0900T3	1,600		
250	208	PS250B0500T3	PS250B0900T3	2,450	34,000	
	480	PS250H0500T3	PS250H0900T3	1,800		
300	208	PS300B0500T3	PS300B0900T3	2,900	40,800	
	480	PS300H0500T3	PS300H0900T3	1,950		
**400	208Y/120	PS400O0500T3		3,900	50,700	
	480Y/277		PS400H0900T3			
**500	208Y/120	PS500O0500T3		4,250	60,600	
	480Y/277		PS500H0900T3			
**625	480Y/277		PS625H0900T3	6,500	70,400	
**750	480Y/277		PS750H0900T3	7,500	80,800	
**875	480Y/277		PS875H0900T3	8,500	90,600	
**1000	480Y/277		PS104H0900T3	9,500	99,600	
**1250	480Y/277		PS124H0900T3	10,500	105,000	

- \* Other voltages and frequencies available consult factory
- \*\* Consult Factory
- \*\* Input and Output voltage must be the same
- \*\*\* For "KI3" version, consult factory.

Specifications are subject to change without prior notification

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