

Following a substantial investment in time and resources, Crucial Power Products produced a power conditioner specifically designed and tested to operate with the Ximatron systems.

With hundreds of systems now installed and operating in the field, system compatibility and reliability are guaranteed.

### **Noise Reduction**

With built-in surge suppression, the Power Conditioner offers protection against spikes and transients in both Common-Mode and Transverse-Mode.

A multi-shielded isolation transformer in conjunction with an input filter, virtually eliminates all electrical noise from critical medical equipment.

### **Prescription for Profitability**

The medical-grade power conditioner will help protect your medical equipment investment and provide more consistent patient treatment.

#### **Minimizes:**

- ⊕ Interrupted Treatment
- ⊕ 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, losses due to poor input power are rarely covered by manufacturer's warranties or service contracts.

### **Voltage Regulation**

The Regulator Portion provides precision line voltage regulation. The power conditioner monitors the voltage every 16 milliseconds and adjusts the voltage as load and line conditions change.

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.

When your patient needs are of the utmost concern, we're there to make sure you "Stay On-Line with Crucial Power Products." So protect your investment and your profits with an Crucial Power Conditioner.



# Medical Grade Power Conditioner

*Three Phase Medical Power Conditioner*



Cabinet #5451 Pictured

- **UL LISTED**
- **High Efficiency**
- **Low Distortion**
- **Advanced Technology**
- **Single Point Grounding**
- **Precision Voltage Regulation**
- **Attractive Low-Profile Cabinet**
- **Toll-Free Service Line (24 hours/day)**  
**(800) PWR-SRVC (797-7782)**

*A Full Line Power Protection Company.*

# LIFE-LINE Medical Grade Power Conditioner Specifications

<b>Sizes</b> .....	15, 75, and 120 kVA
<b>Input Voltage</b> .....	208, 380, 415, or 480 VAC**
<b>Output Voltage</b> .....	208Y/120, or 480Y/277 VAC**
<b>Frequency</b> .....	60 Hz $\pm$ 5% or 50 Hz $\pm$ 5% (model dependent)
<b>Transformer Type</b> .....	3 Phase, Multi-Shielded, Customized to Varian specifications
<b>System Impedance</b> .....	Customized to Varian specifications
<b>Efficiency</b> .....	96% at Full Loads, 98.5% at Light Loads
<b>Load Power Factor</b> .....	0.3 Leading or Lagging to unity
<b>Harmonic Distortion at Switching</b> .....	1% Max. Added
<b>Crest Factor</b> .....	3:1 maximum
<b>Audible Noise</b> .....	<35 dB Measured on Response Curve "A"
<b>Typical Noise Rejection</b> .....	Common-Mode: -120 dB Normal-Mode: -40 dB/decade
<b>Regulation Range</b>	
<b>Input:</b> .....	+10% to -14%; +6% to -18%
<b>Output</b> .....	Customized to Varian specifications
<b>Cooling</b> .....	Convection
<b>Overall Inrush Rating</b> .....	200% at 10 Seconds; 1000% at 1 Cycle
<b>Environmental</b>	
<b>Operating Temperature</b> ..	32°F.(0°C.) to 104°F.(40°C.)
<b>Storage Temperature</b> .....	-4°F.(-20°C.) to 140°F.(60°C.)
<b>Operating Humidity</b> .....	5 to 95% without condensation
<b>Dimensions</b>	
	<b>Wide                      High                      Deep</b>
<b>Cabinet #4061</b> .....	26.5"(67 Cm)    32"(81 Cm)    17"(43 Cm)
<b>Cabinet #5451</b> .....	32"(81 Cm)    42"(107 Cm)    27"(56 Cm)
<b>Cabinet #5067</b> .....	34"(86 Cm)    72"(183 Cm)    34"(86 Cm)
<b>TVSS</b> .....	Designed to meet ANSI/IEEE C62.41 categories A&B, and IEC 801-2, -3, -4, -5, and -6. (Note: IEC 801-5 incorporates ANSI/IEEE C62.41)
<b>Voltage Surges</b> .....	20% Max. above nominal voltage 50 milliseconds Max. duration
<b>Voltage Sags</b> .....	30% Max. below nominal voltage 20 milliseconds Max. duration
<b>Line Transients</b> .....	20% above nominal voltage 1/hr.
<b>Neutral to Ground</b> .....	0.5 Volts Max. Potential

Crucial Power MODEL #	SIZE (kVA)	INPUT VOLT.(VAC)	OUTPUT VOLT.(VAC)	WEIGHT (lbs)	BTU/Hr
VACL015B VACL015H *VACL015E *VACL015F *VACL015J	15	208 480 380 415 600	208Y/120**	520	2,040
VACL075B VACL075H *VACL075E *VACL075F *VACL075J	75	208 480 380 415 600	208Y/120**	1,050	10,200
VAXI120B VAXI120H *VAXI120E *VAXI120F *VAXI120J	120	208 480 380 415 600	480Y/277**	1,750 1,350 1,350 1,350 1,350	16,320

\* 50 Hz Model

\*\* Other voltages available

Specifications are subject to change without prior notification.

STANDARD FEATURES	SIZE		
	15 kVA	75 kVA	120 kVA
Cabinet Part Number	4061	5451	5067
Attractive Low-Profile Caster Based Cabinet		✓	✓
Main Input Circuit Breaker w/ Shunt Trip		✓	✓
Input Filter (-40dB)	✓	✓	✓
3 Phase, Regulating, Dual- Shielded, Computer Grade, Isolation Transformer	✓	✓	✓
Precision Voltage Regulator	✓	✓	✓
3 Phase Neon Power-On Indicator		✓	
Regulation/Isolation Only Switch (Bypasses Regulation Electronics)	✓	✓	✓
Environmental Remote Emergency Power Off Station Connection		✓	✓
Emergency Power OFF Switch Connection		✓	✓
Phase Stabilization			✓
Controlled Output Impedance	✓	✓	✓
TVSS	✓	✓	✓

## Available Options

Siesmic Mounting Kit	✓	✓	✓
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