

ONEAC PCm Series Power Conditioners: In medical applications, the need to protect critical electronic equipment and crucial data is second only to protecting patients. ONEAC medical grade power conditioners provide clean power to the equipment in these demanding applications.

Semiconductor-based systems need clean power

Lab instrumentation, medical information systems and patient monitoring equipment have become significantly more sophisticated as each generation of electronic technology evolves. Semiconductors process information faster, less expensively and in smaller spaces than ever before. The information which is processed enables better care for patients and ensures the quality of critical information. But just as we must protect our patients, the semiconductors that perform the vital processing applications must be protected from disruption, degradation and destruction.

ONEAC's unique solution

ONEAC power conditioners assure reliable electronic performance by isolating medical equipment* from the outside electrical worlds they connect to. They differ from surge suppressors in that they limit not only peak voltage (amplitude), but also edge-speed (frequency) of electrical transients.

ONEAC's low impedance transformer and Virtual Kelvin Ground® remove the full spectrum of conducted power line noise in all modes. More, they convert a noisy safety ground to a noise-free signal ground. It's an approach that has proven uniquely effective against all conducted electrical disturbances especially those found within the electrically-noisy hospital environment.

One solution to two problems

By any technical measure, ONEAC power conditioners meet a far higher performance standard than conventional protection products. That translates into more reliable performance from the systems they protect. And with a low impedance isolation transformer incorporated within the unit, the electrical isolation provided allows the connected equipment to meet the strict leakage current requirement of UL2601.



- **Tight surge let-through:** highest possible assurance that conducted transient voltages won't damage or degrade hardware components.
- **Virtual Kelvin Ground:** maximizes system reliability by preventing "soft errors" and other symptoms of logic disruption caused by high frequency noise.
- **Separately derived power source:** leakage current of the equipment, measured at the conditioners line cord, is in compliance with UL2601.
- **Hospital grade plugs and receptacles on A models, IEC plugs and sockets on I & J models:** minimizes accidental disconnects.
- **Small footprint, quiet operation:** unobtrusively fits into any environment.
- **Front panel indicator light:** inform the user of output power.
- **Designed & manufactured under ISO 9001:** assures consistent quality and performance.
- **Global approvals:** UL, cUL listed under UL1950, UL2601 and CE marked.
- **5-year warranty:** the best assurance of product quality and performance in the industry.

ONEAC PCm Series Power Conditioners: Specifications

Power Conditioning

ONEAC's unique power conditioning architecture provides unmatched protection against the full range of power line disturbances. Components include:

Full output isolation: ONEAC's proprietary low impedance transformer design. Completely safeguards against lightning and other high energy surges without creating detrimental side effects. Allows connected equipment to meet medical leakage current requirements.

Virtual Kelvin Ground: Eliminates the full spectrum of conducted power line noise (from 50 kHz to 10 MHz) in all modes, reduces the effects of electrostatic discharge (ESD), and provides an exceptionally clean signal reference ground for electronic systems.

Approvals

All PCm models are UL and cUL listed under UL1950, UL2601 and carry the CE mark.

Performance Characteristics

Surge Voltage Withstand Capability: ANSI/IEEE C62.41 Category A&B, 6 kV/200 & 500 Amp, 100 kHz ringwave

Surge and Noise Rejection-Isolation: with unit under power, and ANSI/IEEE C62.41 Category A pulse applied either normal mode (L-N) or common mode (N-G) at the input, the noise output voltage will be less than 10V normal mode and less than 0.5 V common mode in all four quadrants.

Load Power Factor: 0.3 leading to 0.3 lagging

Load Regulation Response Time: <2 msec for a 50% change in load

Interruption Response Time: output voltage will track input voltage in less than 2 msec at power-off and power-on for a single-cycle asynchronous notch

Distortion: <1% THD added into a resistive load

Overload Protection: twin pole circuit protection

Cooling: convection

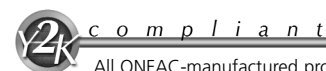
Leakage Current (µA): <100

MODEL #	LOAD VA	NOMINAL INPUT VOLTAGE	MAX. OUTPUT RATING Amps	Frequency	PHYSICAL DIMENSIONS			SHIPPING WEIGHT lbs (kg)
					HEIGHT	WIDTH	DEPTH	
					in (cm)			
PCm120A	120	120	1	60	4.79 x 4.11 x 7.42	12.2 x 10.4 x 18.8	7 (3.2)	
PCm180I	180	230	0.8	50	4.79 x 4.11 x 7.42	12.2 x 10.4 x 18.8	12 (5.4)	
PCm180A	180	120	1.5	60	4.79 x 4.11 x 7.42	12.2 x 10.4 x 18.8	8 (3.6)	
PCm240I	240	230	1	50	4.79 x 4.11 x 7.42	12.2 x 10.4 x 18.8	12 (5.4)	
PCm240A	240	120	2	60	4.79 x 4.11 x 7.42	12.2 x 10.4 x 18.8	11 (5)	
PCm360I	360	230	1.5	50	4.79 x 4.11 x 8.97	12.2 x 10.4 x 22.8	13 (5.9)	
PCm360A	360	120	3	60	4.79 x 4.11 x 7.42	12.2 x 10.4 x 18.8	12 (5.4)	
PCm360J	360	100	3	50/60	4.79 x 4.11 x 8.97	12.2 x 10.4 x 22.8	13 (5.9)	
PCm550I	550	230	2.3	50	5.4 x 6.4 x 10.9	13.7 x 16.4 x 27.7	19 (8.6)	
PCm550A	550	120	4.6	60	5.4 x 6.4 x 10.9	13.7 x 16.4 x 27.7	21 (9.5)	
PCm750I	750	230	3.1	50	5.4 x 6.4 x 10.9	13.7 x 16.4 x 27.7	25 (11.3)	
PCm750A	750	120	6.2	60	5.4 x 6.4 x 10.9	13.7 x 16.4 x 27.7	24 (10.9)	
PCm1000I	1000	230	4.2	50	5.4 x 6.4 x 10.9	13.7 x 16.4 x 27.7	30 (13.6)	
PCm1000A	1000	120	8.4	60	5.4 x 6.4 x 10.9	13.7 x 16.4 x 27.7	30 (13.6)	

NOTE: All "I" and "J" models have 10 A IEC320 input connectors with cable retainers and four 10 A IEC320 output sockets. "A" models have hospital grade NEMA plugs and receptacles (120 A - 180 A, [(2) 120 A - 180 A output sockets and (4) 240 A - 1000 A output sockets].

* **DISCLAIMER:** ONEAC PRODUCTS ARE NOT DESIGNED, INTENDED OR AUTHORIZED FOR USE IN SYSTEMS INTENDED TO SUPPORT OR SUSTAIN LIFE, OR FOR ANY OTHER APPLICATION IN WHICH THE FAILURE OF THE ONEAC PRODUCTS COULD CREATE A SITUATION WHERE PERSONAL INJURY OR DEATH MAY OCCUR. SHOULD BUYER PURCHASE OR USE ONEAC PRODUCT FOR ANY SUCH UNINTENDED OR UNAUTHORIZED APPLICATION, BUYER SHALL INDEMNIFY AND HOLD ONEAC, ITS OFFICERS, EMPLOYEES, SUBSIDIARIES, AFFILIATES AND DISTRIBUTORS HARMLESS AGAINST ALL CLAIMS, COSTS, DAMAGES AND EXPENSES, AND REASONABLE ATTORNEY FEES ARISING OUT OF, DIRECTLY OR INDIRECTLY, ANY CLAIM OR PERSONAL INJURY OR DEATH ASSOCIATED WITH SUCH UNINTENDED OR UNAUTHORIZED USE, EVEN IF SUCH CLAIM ALLEGES THAT ONEAC WAS NEGLIGENT REGARDING THE DESIGN OR MANUFACTURE OF THE PART.

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All ONEAC-manufactured products are Y2K compliant.

ONEAC is a UL/BSI registered corporation — Certification No. A2900



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