

ONEAC PC Series Power Conditioners: Business systems, which are critical to generating revenue and maintaining data, face reliability and performance expectations which cannot be compromised. ONEAC PC Series power conditioners provide the clean power necessary for those systems to perform as they were designed.

Computer-based business systems need clean power

Computers, point of sale equipment, telecommunications and manufacturing systems all rely on semiconductors to operate. Semiconductors perform by processing electric signals of less than a few volts each. Transient voltage disturbances confuse that process. Data may be lost or corrupted. Instructions garbled. Processes stopped. Systems need to be reset. Worse case, electrical overstress can destroy or degrade semiconductor material. The results are increasingly unreliable operation or seemingly random, sudden failures.

ONEAC's unique solution

ONEAC power conditioners assure reliable electronic performance by isolating critical semiconductor-based circuits from the harsh electrical environment. They differ from surge suppressors in that they limit not only peak voltages (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. And, they convert a noisy safety ground to a noise-free signal ground. It's an approach that has proven uniquely effective against all electrical disturbances.

For increased productivity

By any technical measure — surge voltage let-through, frequency control, stability, predictability, or durability — ONEAC power conditioners meet a far higher performance standard than conventional protection products. That translates into more reliable performance from the systems ONEAC protects. Field tests confirm it. Those who use ONEAC power conditioners in place of surge suppressor-based products, with or without a dedicated I/G circuit, dramatically reduce system crashes, unexplained system errors and other "soft" failures as well as hardware failures. So they enjoy a reduction in downtime and fewer service calls.

Robust design, proven durability

Designed and manufactured under ISO 9001 quality procedures, ONEAC power conditioners have no parts that wear out. They last far longer than surge suppressors. And are highly reliable, even in harsh electrical environments. Their exceptionally high mean time between failures (MTBF) backs that up. So do we with a comprehensive 5-year warranty. Plus ONEAC can engineer site-specific protection schemes to protect critical equipment by eliminating power problems entirely.



- **Global variations:** available for world-wide specifications
- **Reliable low impedance transformer design:** provides constant and consistent protection against voltage spikes.
- **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.
- **Optional ONEGROUND™ technology:** prevents costly damage to I/O boards, minimizes disruption and degradation caused by ground voltage differentials.
- **Front panel indicator lights:** inform the user of output power and possible wiring fault conditions.
- **Maintenance-free:** no parts that wear out so total lifetime cost is limited to the original purchase price.
- **Small footprint, optional wallmount, quiet operation:** unobtrusively fits into any environment.
- **Plug and play:** easy installation saves money and adds flexibility.
- **Designed and manufactured under ISO 9001:** assures consistent quality and performance.
- **5-year warranty:** the best assurance of product quality and performance in the industry.

ONEAC PC 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.

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.

Optional ONEGROUND: Diverts transient errant current from flowing through ground circuit leads of datacom cables—minimizing the effect of ground potential shifts that can effect the performance of interconnected systems.

Approvals

60Hz units are UL and cUL listed under UL1012 and C22.2.

50Hz units are UL and cUL listed under UL1012 and UL1950, CE marked.

Performance Characteristics

Nominal input voltage: 120VAC, 60Hz/200-240VAC, 50Hz

Surge voltage withstand capability: ANSI/IEEE C62.41 Category A&B, 6kV/200 & 500 Amp, 100kHz 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 0.5V common mode in all four quadrants using a Keytek 711A/J (or equivalent) surge generator and a low-voltage, high sensitivity probe

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: push to reset external circuit breaker

Cooling: convection



60Hz model S4S



50Hz model C4C

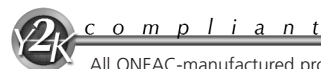
MODEL #	MAXIMUM OUTPUT RATING	LOAD			PHYSICAL DIMENSIONS			SHIPPING WEIGHT	
		AMPS	VA	FREQUENCY	HEIGHT in (cm)	WIDTH in (cm)	DEPTH in (cm)	lb	(kg)
PC075A	0.63	75	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	6	(2.7)	
PC075AG	0.63	75	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	7	(3.2)	
PC075I	0.32	75	50Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	8	(2.7)	
PC075IG	0.32	75	50Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	8	(3.2)	
PC120A	1.0	120	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	7	(3.2)	
PC120AG	1.0	120	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	8	(3.6)	
PC120I	0.5	120	50Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	8	(3.6)	
PC120IG	0.5	120	50Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	8	(3.6)	
PC180A	1.5	180	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	8	(3.6)	
PC180AG	1.5	180	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	9	(4.1)	
PC180I	0.75	180	50Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	12	(5.4)	
PC180IG	0.75	180	50Hz	4.79 (12.2)	4.11 (10.4)	8.97 (22.8)	12	(5.4)	
PC240A	2.0	240	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	11	(5.0)	
PC240AG	2.0	240	60Hz	4.79 (12.2)	4.11 (10.4)	8.97 (22.8)	12	(5.4)	
PC240I	1.0	240	50Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	12	(5.4)	
PC240IG	1.0	240	50Hz	4.79 (12.2)	4.11 (10.4)	8.97 (22.8)	12	(5.4)	
PC360A	3.0	360	60Hz	4.79 (12.2)	4.11 (10.4)	7.42 (18.8)	12	(5.4)	
PC360AG	3.0	360	60Hz	4.79 (12.2)	4.11 (10.4)	8.97 (22.8)	13	(5.9)	
PC360I	1.5	360	50Hz	4.79 (12.2)	4.11 (10.4)	8.97 (22.8)	13	(5.9)	
PC360IG	1.5	360	50Hz	4.79 (12.2)	4.11 (10.4)	8.97 (22.8)	13	(5.9)	

Input connector: 60Hz units - Six-foot line cord with NEMA 5-15P plug (as standard.), 50Hz units - IEC320 connector. Most models are available with two or four receptacles.

Output connectors: 60Hz units - NEMA 5-15R receptacles, 50Hz units - IEC320 outlets

G suffix in model number denotes built-in ONEGROUND Technology.

Wallmount or standard chassis are available (wallmount option adds 1.2 inches (3.0 cm) to overall length of each unit).



All ONEAC-manufactured products are Y2K compliant.

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



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