

POWERWORX™ Clean Power Systems

A unique application of proven technology, the **POWERWORX** Clean Power System provides your business with the electrical power conditioning capabilities previously available only to the largest facilities and installations. The **POWERWORX** Clean Power System is easy to install and provides immediate benefits for the user. In one cost-effective and maintenance-free package, **POWERWORX** provides power factor correction, surge and spike suppression, and noise filtration.

POWERWORX also protects the environment. Each year, a typical industrial **POWERWORX** unit can save up to 17,250 kilowatt hours of electricity, achieving saved natural resources, lower atmospheric emissions and reduced hazardous waste.

The **POWERWORX** Clean Power System is designed to provide the following benefits for the commercial/industrial user:

- Protection of sensitive office equipment (such as computers, printers, copiers and fax machines)
- Energy savings to inductive loads (such as pumps, compressors, fans and motors)
- Power factor correction
- Lower operating temperatures for motors
- Lower maintenance costs of electrical equipment
- Prolonged life of electrical equipment
- Reduced electricity demand
- Reduced electrical noise

POWERWORX Clean Power Systems dramatically reduce operating expenses by saving energy, lowering maintenance costs, and extending the useful life of motors and machinery.

- 60-day money-back guarantee
- 10-year limited product warranty
- Payback period typically 2 years



Specifications

Unit Model	CPS-1C240	CPS-3Y208	CPS-3D480	CPS-3Y480
Power Line Voltage (Vac)	120/240	120/208	480	480
Phase & Configuration	single	3 Wye	3 Delta	3 Wye
Frequency (Hz)	50 - 60	50 - 60	50 - 60	50 - 60
Power Dissipation (J) (2 ms current wave)	1000	2220	4620	4620
Peak Pulse Current (A) (8/20 us current wave)	40k - 120k	40k - 120k	40k - 120k	40k - 120k
Maximum Clamping (V) (@ 200A, 8/20 Ms current wave)	405/690	630	1480	1480
Total Capacitance (µ F)	200	495	360	360
Operating Temperature (°C)	-40 - 70	-40 - 70	-40 - 70	-40 - 70
Line Wires (AWG)	10	10	8	8
Circuit Breaker Required (A)	20	40	50	50
Dimensions (WxDxH)	10"x8"x6"	12"x12"x6"	12"x14"x8"	12"x14"x8"
Weight (lbs)	17	28	40	40

POWERWORX™ has assembled and configured these functions in a manner that provides the most simple and cost-effective way in which to utilize the technology. These are proven technologies and methods for achieving the specified ends. All **POWERWORX™** models share the following characteristics:

- Placed in parallel into AC systems, either at the main power panel for a facility or at some sub-panel within the distribution system
- Physically mounted on a wall near the panel of choice and connected to the panel via conduit and a dedicated circuit breaker
- Installed throughout a facility, generally near major inductive loads such as motors, driving pumps and HVAC units
- Maintenance-free, solid-state devices with no moving parts; not meant to be opened or serviced during their operating life
- 60-day money-back guarantee and a 10-year limited warranty
- Listed by Underwriter's Laboratories (UL) in the Industrial Control Equipment category of products

POWERWORX™ achieves *power factor correction* through standard, can-type capacitors that provide a known reactance into an inductive load. Typical kVAR values range from approximately 2 to 31 kVAR, depending upon the model of **POWERWORX™** unit installed. *Surge and spike suppression* is achieved via metal oxide varistors (MOV's) placed in a variety of configurations depending on the system's phase and voltage characteristics. *Noise suppression* is achieved via the primary power factor capacitors and smaller capacitors in an RLC filter circuit. These are arranged within a NEMA 12-rated enclosure (moisture, dust and tamper resistant).

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