

## THE PowerwoRx CLEAN POWER SYSTEM

EcoTrust Energy's PowerwoRx provides businesses 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
- Noise reduction

### Electrical Specifications

	CPS-3Y208/240	CPS-3D208/240	CPS-3Y480	CPS-3D480
<b>Power Line Voltage (VAC)</b>	120/208/240	120/208/240	277/480	277/480
<b>Phase Configuration</b>	3 Wye	3 Delta	3 Wye	3 Delta
<b>Frequency (Hz)</b>	50 - 60	50 - 60	50 - 60	50 - 60
<b>Power Dissipation (J)</b>				
(2ms current wave)	2400		4620	
<b>Peak Pulse Current (A)</b>				
(8/20 $\mu$ s current wave)	40k -120k	40k -120k	40k -120k	40k -120k
<b>Maximum Clamping (V)</b>				
(@ 200A, 8/20 microsecond current wave)	690		1480	
<b>Total Kvar</b>	12		31	50
<b>Operating Temperature (<math>^{\circ}</math>C)</b>	-110	-110	-110	-110
<b>Line Wires (AWG)</b>	10	10	8	8
<b>Circuit Breaker Required (A)</b>	30/40	30/40	50	50
<b>Dimensions (WxDxH)</b>	12"x12"x6"	12"x14"x8"	12"x14"x8"	12"x14"x8"
<b>Weight (lbs.)</b>	28	28	40	40



## THE PowerwoRx CLEAN POWER SYSTEM ORDERING INFORMATION

The EcoTrust Energy PowerwoRx Units are available in 4 different 3 phase configurations and one residential single phase unit.

PART NO.	MODEL	Std Panel Mount	VOLTAGE
US40792	CPS-3Y208/240	200A 'Y' 3 $\Phi$	120/208/240V
US40793	CPS-3D208/240	200A Delta 3 $\Phi$	120/208/240V
US40794	CPS-3Y480	200A 'Y' 3 $\Phi$	440/480V
US40795	CPS-3D480	200A Delta 3 $\Phi$	440/480V
US TBD		400A single $\Phi$	120/240V
US40718B	PowerwoRx e3	200A single $\Phi$	120/240V

### Enclosure Specifications

- NEMA 1 Rating – interior mount only
- Surface Mount
- Conduit Knockout 1 1/4"

The EcoTrust Energy's PowerwoRx Units are installed at main panels and therefore come in a NEMA 1 enclosure which is not suitable for external mounting.

### Installation Considerations

PowerwoRx 3 Phase Commercial 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, both on main power distribution panels as well as 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
- 10-year limited warranty
- Recognized by Underwriters Laboratories (UL) in the Industrial Control Equipment category of products:  
[http://database.ul.com/cgibin/XYV/template/LISEXT/1FRAME/showpage.html?name=AGGZ.GuidelInfo&ccnshorttitle=Electrostatic+Air+Cleaners&objid=1073997187&cfgid=1073741824&version=version1ess&parent\\_id=1073984036&sequence=1](http://database.ul.com/cgibin/XYV/template/LISEXT/1FRAME/showpage.html?name=AGGZ.GuidelInfo&ccnshorttitle=Electrostatic+Air+Cleaners&objid=1073997187&cfgid=1073741824&version=version1ess&parent_id=1073984036&sequence=1)

## THE PowerwoRx CLEAN POWER SYSTEM BENEFITS

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 (kilowatt) demand**