



**Controlled Systems**

## **45 KW, 270 VDC Power Supply**

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### S P E C I F I C A T I O N S

<b>Model #</b>	<b>PS4-270-F35-CS-4G</b>
<b>Ratings</b>	45KW
<b>Input Voltage</b>	138/240 VAC, 3 phase, 4 wire, ungrounded N
<b>Input Voltage Range</b>	+/- 5%
<b>Input Frequency</b>	400 Hz
<b>Input Power Factor</b>	.8 Lagging to unity
<b>Input Current Harmonics</b>	< 3% IHD at full load
<b>Input Capacitance to Gnd</b>	limited to .02uf/phase per MS461E, par 4.2.2
<b>Inrush Current</b>	110% @ Full Load
<b>Output #1</b>	270 VDC, 170 A
<b>Output #2</b>	28 VDC, 15 A
<b>Output Voltage Setpoint</b>	+/- 10%
<b>270 VDC Pulse Loads</b>	2500 uf
- Pulse Load Period	50-250 msec ON, 50-250 msec OFF, up to 30 min
- Reverse Power	up to 38 KW for 50 msec, every 5 sec up to 30 min
- Reverse Power	up to 20 KW for 50 msec, every 250 msec up to 5 min
<b>28 VDC Pulse Loads</b>	100 uf
- Pulse Load Period	50-250 msec ON, 50-250 msec OFF, up to 30 min
<b>Regulation</b>	+/- 1.0 %
<b>Ripple</b>	+/- 1.0% peak to peak
<b>Line Drop Compensation</b>	0 - 7 Volts
<b>Input Disconnect Device</b>	None
<b>Output Disconnect Device</b>	None
<b>Output Inrush Current</b>	up to 2,000 amps for 100-200 usec
<b>Overload Capacity</b>	300% for 5 seconds
<b>Efficiency</b>	97% Full Load
<b>Ambient Temperature</b>	0° to +50°C operating
<b>Cooling</b>	Forced Air
<b>Altitude</b>	Up to 6000 feet standard, (higher, optional)
<b>Relative Humidity</b>	0 to 95% non condensing
<b>Rectification</b>	Active
<b>Enclosure</b>	Nema 12 vented, dripproof
<b>Hardware</b>	Stainless Steel

#### **Physical**

Shock meets Grade A Class I Type A of Mil-STD-901D  
 Vibration meets Type I of MIL-Std-167-1A, 33Hz  
 EMI MIL-STD-461E Test: RE101, RE102, RS101, RS103, CS101, CE102, CS114, CS116.  
 Bulkhead Mounted  
 Size 42"Hx 36"Wx 14"D  
 Weight 350 Lbs.

#### **Control**

Remote Control Provisions - 28 VDC