



**DEFENSE PROTECTED  
POWER SYSTEMS**

**Product Specifications**

**Model: RP7000 (with options -SH, -VU)**

**ORDERING INFORMATION:**

Base Unit: RP7000  
Add any options as a suffix to the Base Unit  
Shelf -SH  
VAVU -VU

**Description:**

Enterprise-level Power Filter, 208 VAC Three Phase Delta 60 Amp Input

**Enclosure:**

Steel construction, multiple rack-mounting options

**Electrical Features:**

Input Connection customer specified  
Output Connection whip with customer spec. outlet  
Indicators Power On

**Electrical Ratings:**

Input Voltage - Range 208 Three Phase Delta  
Output Voltage 208 Three Phase Delta (Stabilized)  
Input Current (Amps) 60 A RMS  
VA Rating 30kVA  
Nominal Frequency 50 to 60 Hz  
Power Factor 0.99  
Max Cont. Operating Voltage 275 VAC  
EMI/RFI Emissions None (Faraday Cage Tested),  
Performs EMI/RFI Suppression

**Environment:**

Storage Temp. Range 40° to 90° F  
Operating Temp. Range 40° to 104° F  
Moisture (relative humidity) 0 to 90% non-condensing

**NRTL Safety Listing:**

Testing Laboratories UL 60950-1 I.T.E.

**Operating Temperature (Surface):**

No Load	F °	C°
Half Load	Ambient*	Ambient*
Full Load	Ambient *	Ambient*
	85°	29°

\*Ambient Temp ( 72°F/40°C

**Performance**

Electrical Mode Protection: Patented Full-Path bi-directional filtration

Harmonic Distortion Attenuation: 40% typical reduction of current THD

Power Factor Correction: 30% average improvement

EMI/RFI Filtration: Each Path (Line, Neutral, Ground) bi-directionally filtered (Patented)

Noise Attenuation: Over 100 dB reduction on Line and Neutral, over 60 dB on Ground; Effective Range of 100 Hz - 2 GHz

Electromagnetic Pulse Reduction: Blocks harmful current from pulses entering Line, Neutral (or Line), and Ground

Surge Joule Rating: DPPS's patented MagNorm technology manages all surge energy; the Joule rating is unlimited.

Suppression Strength: < 1 Event VA<sub>t</sub> (Event VA<sub>t</sub> = VA of all peak-to-peak energy during surge event); for comparison most surge suppressors allow >30,000 Event VA<sub>t</sub> Normal Mode to pass to load.

Surge Waveforms Injected under Load: IEC Combination Wave-Open-Circuit 1.2/50 and Combination Wave-Short-Circuit 8/20, 100kHz Ringwave per IEC 1000-4-12 ANSI C62.41

Actual Clamping Voltage during Surge (typical) and under load: Line-Line Voltage **208V RMS +/- 10V**  
Line-Ground Voltage **208V RMS +/- 10V**  
Surge Line Current **less than 0.0001 Amps over RMS**

Noise and Surge Rejection-Isolation: With Unit under power and an attached load under power (typical customer use), an ANSI C62.41 Cat. A pulse applied under all modes at the input, the voltage noise output will be less than 10 Volts for one microsecond, normal mode. The current noise is less than 18 amps for one microsecond, normal mode.

Surge Withstand Rating - MagNorm™ Performance: Severe Performance Test - 6000 Volts, 500 Amps Cat. A C62.41-1991 Ring-wave surge (at 90 degree point of input sinewave, positive charge, L1,L2/PE) injected every 45 seconds with powered loads in place for a total of over 1,260 injections in a 24 hour period - no degradation of device, loads or output performance. (see Noise and Surge Rejection-Isolation)

**Physical Dimensions:**

Product Weight 45 lbs.  
Dimensions Height 3.5 inches (2U) Width 8 inches (1/2 Rack) Depth 24 inches

**Mounting Options:**

Inside Rack 2U - 19" Rack Shelf adjustable from 24" to 40"

