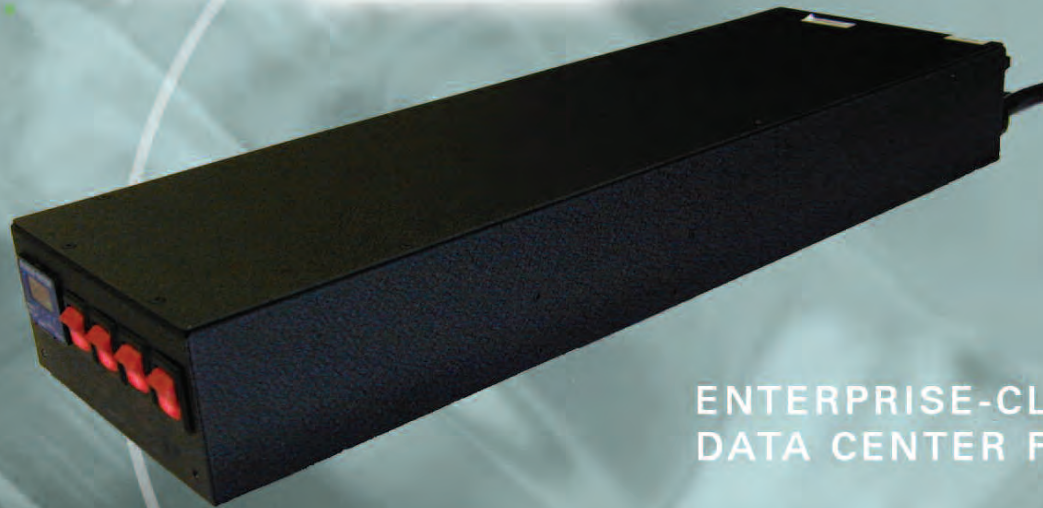




# VA SENTRY



## ENTERPRISE-CLASS DATA CENTER FILTER

### VA SENTRY™ RP6000 220V 30A FEATURE HIGHLIGHTS

### DPPS™ ELECTRICAL POWER SOLUTIONS FOR DATA CENTERS

THE PATENTED MagNorm™ SYSTEM DELIVERS:

- **Protection from damaging energy on all wire paths** with a transformerless, dependable design.
- **Lower heat output** from server racks a noticeable 5 to 10 degrees Fahrenheit by eliminating the unwanted flow of harmonics between the computers and the VA Sentry.
- **Patented pure ground-path technology** – eliminates ground noise energy



### OTHER FEATURES

- **Flexible mounting options** - 2U height, half-rack width installable on a shelf, underfloor, above cabinet or zero-U
- **Internationally multi-patented noise and surge filtration** - the best possible protection for electronics
- **Complete surge energy blockage** – unlimited joules, U.S. Gov't Class SPD A-1-1 quality
- **Ultra-high frequency filtration** - 100 Hz to >2 GHz
- **Power factor correction** – improves energy efficiency
- **Scrolling Power Meter** - Shows Volts, Amps, Watts and Power Factor
- **VAVU™ Power Monitoring and Alerting** (optional) - real-time TCP/IP-based power and environment monitoring
- **Extends connected equipment lifecycle** - proven protection and consistent power delivery
- **UL 60950-1 compliant**

DESIGNED AND MANUFACTURED IN THE U.S.A.



**DEFENSE PROTECTED  
POWER SYSTEMS**

**Product Specifications**

**Model: RP6000 (with options -SH, -VU, -FT, -BK)**

**ORDERING INFORMATION:**

Base Unit: RP6004A  
 Add any options as a suffix to the Base Unit  
 Shelf -SH  
 VAVU -VU  
 Feet -FT  
 Zero-U Brackets -BK (Custom)

**Description:**

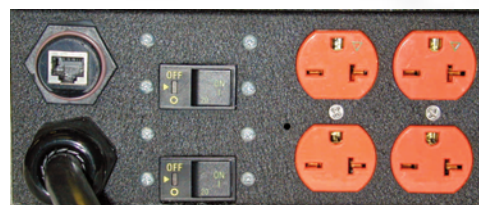
VA Sentry Enterprise-level Power Filter, 208-220 VAC, 30 Amp

**Enclosure:**

Steel construction, multiple rack-mounting options

**Electrical Features:**

Input Connection 1 - NEMA L6-30P 10' whip  
 Output Connection 4 - NEMA 6-20R IG Individually Switched  
 Indicators Power Meter (LED)  
 Scrolling display shows Volts, Amps, PF, Watts



**Network Power Monitoring and Alerting: VAVU**

Interface: RJ-45 Ethernet 10/100 MB  
 Please visit <http://www.levelerllc.com> for product details.

**Electrical Ratings:**

Input Voltage - Range 208 - 220 VAC  
 Output Voltage 208 - 220 VAC (Stabilized)  
 Input Current (Amps) 30 A RMS  
 VA Rating 6600  
 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):**

	F °	C °
No Load	Ambient*	Ambient*
Half Load	Ambient *	Ambient*
Full Load	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 **220V RMS +/- 10V**  
 Line-Ground Voltage **110-120V 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 33 lbs.  
 Dimensions Height 3.5 inches (2U) Width 8 inches (1/2 Rack) Depth 24 inches

**Mounting Options:**

(Specify at Ordering) Inside Rack 2U - 19" Rack Shelf adjustable from 24" to 40"  
 Inside Rack Zero-U - Custom Brackets for rear vertical electrical "doghouse" mounting  
 Free-standing - Rubber Feet

**Critical Power Group ~ 20413 Crimson Place ~ Leesburg, VA 20175 ~ (703) 443-1717 ~ [www.criticalpowergroup.com](http://www.criticalpowergroup.com)**