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DPPS - Defense Protected Power Systems - Product Specifications



Model: RP70001 (208 VAC)

A three phase 208VAC, 60 amp (48 amp de-rated) power conditioner and Surge Protective Device (SPD) that features patented ground harmonics filtration and power factor correction. This SPD prevents “surge coupling” across all wires with its patented circuit and is intended for 19” rack installation closest to the point of use.

Electrical Ratings

Input Voltage-Range	208 VAC 3 phase, 3 wire + Ground
Output Voltage and Current	208 VAC 3 phase, 48 amp. RMS
VA Rating	30KVA (VA= 3 x V _{Phase} X A _{Phase})
Nominal Frequency	50 to 60 Hz
Power Factor	0.99
Max Cont. Operating Voltage	300 VAC
Min Cont. Op. Voltage	45 VAC
Safety Standard	IEC 60950-1 ITE standard

Electrical Connections

Input Connection	Hubbell 460P9W
Output Connection	Hubbell 460C9W

Performance Metrics

Electrical Mode Protection	Patented in-series Normal (L-L) and Common Mode (L-G, N-G, L,N,G)
Harmonic Attenuation	Up to 20% typical reduction of odd-numbered current harmonics
Power Factor Correction	Up to 20% average improvement
EMI/RFI Filtration	Each path (3 Phases + Ground) bi-directionally filtered (patented)
Noise Attenuation	Up to 40dB reduction Phases, up to 40dB on Ground; Range of 100 Hz - > 600 MHz
Electromagnetic Pulse Reduction	Blocks all unwanted current from pulses entering all paths
Surge Joule Rating	Series Mode Protection = Unlimited Joules of Energy Suppression
Duty Cycle	Tested independently to retain performance after 24 hours of constant 6000V, 3000A surges without any degradation to unit or load.
Surge Withstand Rating	Severe Performance Test– 6000 Volts, 500 Amps Cat. A C62.41-1991 Ring-wave surge (at 90 degree point of input sine wave, positive charge, L1, L2/PE) injected every 45 seconds with powered loads in place for a total of over 1260 injections in a 24 hour period– no degradation of device or attached load.

Physical/Environmental

Enclosure	Black powder-coated steel with mounting brackets		
Storage Temp (ambient)	40° to 80° Fahrenheit, 4° to 27° Celsius		
Operating Temp (ambient)	-40° to 104° Fahrenheit, -40° to 40° Celsius		
Moisture	0 to 90% non-condensing		
Product Weight	55lbs. Shipping Weight		
Dimensions	Height	Width	Depth
	3.4 inches	17 inches	15 inches

Intellectual Property

Int'l Patents 6,166,458 &
6,288,917
Other Patents Pending