

DPPS - Defense Protected Power Systems - Product Specifications

Model DPU4

A single phase power conditioner and Surge Protective Device (SPD) that features harmonics filtration and power factor correction. This SPD prevents “surge coupling” across all wires with its patented circuit and is intended for installation closest to the point of use.

Electrical Features

Input Connection	10' (3 Meter) SJTOW 105°C 14 AWG cord set, molded NEMA 5-15P plug
Output Connection	Two (2) 100dB filtered NEMA 5-15R orange outlets, limited by 3 amp auto-reset breaker Two (2) NEMA 5-15R black outlets, limited by 12 amp auto-reset breaker All four (4) outlets have 60dB filtered ground and surge suppression
Circuit Protection	15 amp thermal breaker, push-to-reset

Electrical Ratings

Input Voltage-Range	110-120 VAC single phase
Output Voltage and Current	110-120 VAC single phase, 15 amp
VA Rating	1800
Nominal Frequency	50 to 60 Hz
Power Factor	0.99
Max Cont. Operating Voltage	150 VAC
Safety Standard	MET Listed to UL and cUL standards



Performance Metrics

Voltage Protection Rating	330 Volts Line-Neutral, Line-Ground, Neutral-Ground
Electrical Mode Protection	Patented in-series Normal (L-N) and Common Mode (L-G, N-G, L,N,G)
Harmonic Attenuation	40% typical reduction of odd-numbered current harmonics
Power Factor Correction	Up to 30% average improvement
EMI/RFI Filtration	Each path (Line, Neutral, Ground) bi-directionally filtered (patented)
Noise Attenuation	Up to 100dB reduction on Line and Neutral, up to 60dB on Ground; Range of 100 Hz - > 1GHz
Electromagnetic Pulse Reduction	Blocks all unwanted current from pulses entering Line, Neutral and Ground
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.
Actual Clamping Voltage During Surge (Typical) and Under Load	Line-Neutral Voltage 120V RMS +/-10V Neutral-Ground Voltage 0V RMS +/-10V Surge Line Current less than 0.0001 Amps over RMS
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	ABS/PVC 94V0 with wall mounting feature		
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	2.2lbs., 998 grams		
Dimensions	Height	Width	Depth
	3.3 inches	6.5 inches	3.5 inches
	8.5 cm	16.2 cm	8.7 cm

Intellectual Property

Int'l Patents	6,166,458
	6,288,917

