



Vanguard PP18004A

Data Sheet

Patented Technology that Protects
Line, Neutral and Ground

www.bantamcleanpower.com

Model PP18004A-Product Specifications

Surge Protection ● Power Conditioning & Filter ● Stable Ground Reference
Harmonic Attenuation ● Power Factor Correction ● Ground Infiltration Protection

Electrical Features

Input Connection: 6' SJTOW 16 AWG cord set, NEMA 5-15P plug
Output Connection: Four (4) filtered NEMA 5-15R outlets
Circuit Protection: 15 amp thermal breaker, push-to-reset

Electrical Ratings

Input Voltage: 110-120 VAC Single Phase
Output Voltage: 110-120 VAC Single Phase
Max Output Voltage: 150 VAC
Output Current: 15 amps, VA Rating 1800
Nominal Frequency: 50 to 60 Hz
Power Factor: 0.90
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 Noise Attenuation: Each path (Line, Neutral, Ground) bi-directionally filtered (patented):
Up to 100dB reduction on Line and Neutral, up to 60dB on Ground;
Frequency Range of 100 Hz to > 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, 3000 Amps surges without any degradation to unit or protected device.

Actual Clamping Voltage During Surge (Typical) 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 over 1260 injections in a 24 hour period with no degradation of device or attached load.

Surge Protection Life: Surge events do not damage patented circuit. Surge protection is always active.
Ten (10) Year Replacement Warranty.

Physical/Environmental

Enclosure: ABS/PVC 94V0 with wall mounting feature
Operating Temp (ambient): -40° to 104° Fahrenheit, (-40° to 40° Celsius)
Product Weight: 2.4 lbs, (1100 grams)
Product Dimensions:

Length	Width	Height
6.75 inches (16.2 cm)	3.5 inches (8.7 cm)	3.3 inches (8.7 cm)



Intellectual Property
International Patents

8,223,468
Additional Pat Pending

Contact: Lodestone Group, 4769 E. Wesley Drive, Anaheim CA 92807 • (714) 970-0900



www.bantamcleanpower.com

Computers and Servers
Gaming, Kiosk and ATM
Professional Audio and Video
Power Line Exploitation (PLE)
Hospitality and Point of Sale (POS)
Security & Surveillance Applications
Industrial Controllers and Instrumentation

One Patented Circuit • Revolutionary Performance • Multiple Capabilities • One Low Price

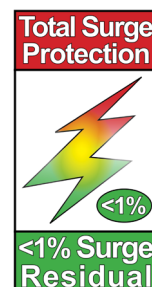
Surge Protection • Power Conditioning & EMI/RFI Filter • Stable Ground Reference
Harmonic Attenuation • Power Factor Correction • PLE Hacker Protection



Bantam Vanguard PP18004 120V 15 amps

Input Voltage: 110-120 VAC Single Phase
Output Voltage: 110-120 VAC Single Phase
Outlets: Four (4) filtered NEMA 5-15R outlets
Output Current: 15 amps
Nominal Frequency: 50 to 60 Hz
Circuit Protection: 15 amp thermal breaker, push-to-reset
Safety Standard: MET Listed to UL and cUL Standards

Portable and compact, the 15 amp Vanguard packs incredible Power Conditioning and Surge Protection Technology in a small affordable package.



Bantam Citadel RM1440 120V 15 amps

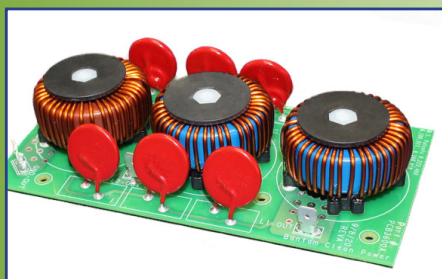
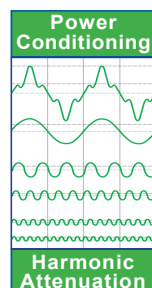
Input/Output Voltage: 110-120 VAC 60 Hz, Single Phase
Outlets: Six (6) filtered NEMA 5-15R outlets
 Two (2) IEC 320 C13 outlets, adapters included.
VA Rating: 1440VA 50 to 60 Hz

Bantam Citadel RM2880 220V 15 amps

Input/Output Voltage: 220-240 VAC 60 Hz, Single Phase
Outlets: Eight (8) filtered IEC 320 C13 outlets
VA Rating: 2880VA 50 to 60 Hz

Regulatory Compliance: UL 62368-1
Circuit Protection: Thermal breaker, push-to-reset
Color LCD Display: Real Time Display For: Surge Count, Voltage, Current, Frequency, Wattage, Power Factor

Available in 120 or 220 volts, the versatile and effective, 15 amp Citadel can be rack, floor or wall mounted. Essential protection for computers, servers, test equipment, security, POS, controllers, audio



Bantam Tempest SA3600 100-240V 15 amps

Input/Output Voltage: 100-240 VAC Single Phase
Max Wattage: 3600 50 to 60 Hz
Output Current: 10-15 amps.
Input/Output Connections: 3 each 0.25" QC Spade Connectors
Regulatory Compliance: UL 62368-1, CE

This Bantam Patented Circuit is UL Component Listed so OEMs can include superior surge and power conditioning in a wide variety of products.

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