

# Bantam®

## Bantam Citadel Series

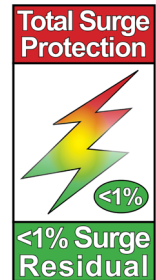
### Power Conditioners Surge Suppressors

### Technology

Patented Technology that Protects  
Line, Neutral and Ground



[www.bantamcleanpower.com](http://www.bantamcleanpower.com)



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

#### Overview

The brand-new Bantam Clean Power Citadel series takes our breakthrough energy management solution and elevates it to higher power levels and more loads. Confidently connect up to eight devices, knowing that they each are receiving the cleanest source power possible and are also not contributing noise upstream. Our custom magnetics are the strongest yet, providing vast energy storage for dynamic demand from all electronics.

This is a complete, three-wire, bi-directional surge suppressor with harmonic attenuation, power factor correction and EMI/RFI mitigation. And for the first time, there is a full color LCD digital power meter with a lab-quality 8/20 microsecond surge counter built-in. You will be able to see power metrics and surge counts in real-time!

This UL 62368-1 listed and FCC approved device is tested for the elevated temperatures of an IT rack or closet, with no moving parts such as a fan. Rack or desktop mountable, The Citadel meets your power quality needs in 120 volt (RM1440) or 230 volt (RM2880) versions.

**Description:** Bantam Clean Power Citadel three-wire, bi-directional, power conditioner and surge suppressor with LCD display with multiple mounting options and 10 year replacement warranty.

Model:	RM1440A-US	RM2880A-US
<b>Electrical Ratings</b>		
Input Voltage:	110-125 VAC, 60 Hz	220 – 240 VAC 50 or 60 Hz
Output Voltage:	110-125 VAC, 60 Hz	220 – 240 VAC 50 or 60 Hz
Max. Input/Output Voltage:	125 VAC, 60 Hz	275 VAC, 50 or 60 Hz
Input/Output Current (Max.):	15 Amperes RMS	15 amperes RMS
VA Rating:	1440 VA	3450 VA
Power Factor (PF):	0.99	
Safety Standard(s):	UL/IEC 62368-1	
Agency Listing(s):	UL (file E521973)	

**Warranty:** Bantam's Patented Technology does not degrade or stops working. All Bantam Products have a 10 year replacement warranty; return a non-functioning Bantam product and receive a no-charge replacement.

Electrical Features	RM1440A-US 110-120V-15 Amp	RM2880A-US 220-240V-15 Amps
Input:	6' SJTOW 14 AWG cordset, NEMA 5-15P molded plug	6' SJTOW 14 AWG cordset EMA 6-15P 15 amp molded plug
Output: 2 Outlets in Front, 6 in Back	Six (6) NEMA 5-15R and two (2) IEC 320 C13 outlets	Eight (8) IEC-320 C-13 outlets
Circuit Protection:	Thermal breaker, push-to-reset	
Power Indication:	Green LED, "on" indicates power to outlets	
Backlit color LCD displays	Real-time Voltage, Current, Power Factor, Frequency, Wattage and Surge Count	
Ground filtration:	Patented series ground filter (non-capacitive)	
Surge Detection:	Circuitry senses surges according to IEC C62.41 8/20 microsecond combination waveform	
GFCI Compatibility (non-masking):	Compatible - does not prevent GFCI protection	

Performance Metrics		
Voltage Protection Rating (VPR):	330V line-neutral, line-ground, neutral-ground	575V line1-line 2, line1-ground, line 2-ground
Electrical Mode Protection:	Patented series normal and common mode	
Harmonic Attenuation and Type:	Up to 40% reduction of voltage and current noise up to 30 Mhz	
Power Factor Correction:	Up to 30% improvement	
EMI/RFI Noise Attenuation:	Over 20dB EMI/RFI suppression from 1Mhz to 20Mhz	
Electromagnetic Pulse (EMP)	Blocks EMP current same as a surge, protecting line, neutral and ground paths	
Joule Rating (Surge):	Series mode protection = unlimited joule rating	
Clamping Voltage (typical, closed circuit):	At 120V AC, +/- 10V, neutral-ground +/- 10V	At 230V AC, +/- 20V, neutral-ground +/- 20V
Surge Suppression Residual Surge:	Less than 1% of total surge current allowed to pass through to protective device	
Duty Cycle:	Can indefinitely sustain and mitigate surges of 6000 Volts, 500 Amps occurring every 45 seconds, with less than 1% surge residual passing through Bantam to the protected device.	

#### Physical/Environmental

Enclosure Material: Molded ABS/PVC UL94-V0 industrial-grade  
 Enclosure Dimensions: 11.75" x 8.25" x 1.75" (299mm x 210mm x 44.5mm)  
 Product Weight: 6 lbs. (2.72kg)  
 Storage Temp: (ambient): 40° to 80° F (4° to 27° Celsius)  
 Operating Temp: (ambient): -40° to 104° F (-20° to 40° Celsius)

#### Installation

Desktop (vertical): Supplied with molded sturdy bolted stands  
 Desktop (horizontal): Supplied with soft feet and placement targets  
 Rack mount: Supplied with metal ears for mounting in 19-inch wide racks,  
 Two-post mounting, may also mount vertically in zero-U rack configuration.  
 Wall Mount: Two keyholes for #10 panhead screws provided on bottom side of enclosure.

