

ARTESYN BBS AND BBU

Battery Backup System and
Battery Backup Unit



Advanced Energy's Artesyn battery backup system fits right into the system rack, occupying only 1U space while providing 4,400 Watts for up to 15 minutes. It protects mission critical information when you need it and where you need it.

DATA SHEET

Total Power:

4.4 kW

Outputs:

12.25 - 12.50 Vdc

FEATURES

- Provides DC power during power outages
- Power shelf to provide 4.4 kW for 15 minutes minimum (BBS)
- Hot-swappable battery backup unit (BBU)
- Charge and discharge management
- Supports hotswap functions
- Battery protection management
- LED indicators for capacity, charge, discharge, fault, and warning states

BBU COMPLIANCE

- IEC60950
- CE Mark, CB Certificate
- TÜV
- UL94V-0 Flammability
- UN38.8
- UL1973
- UL1642
- RoHS

BBS COMPLIANCE

- IEC60950
- CE Mark, CB Certificate
- TÜV
- RoHS

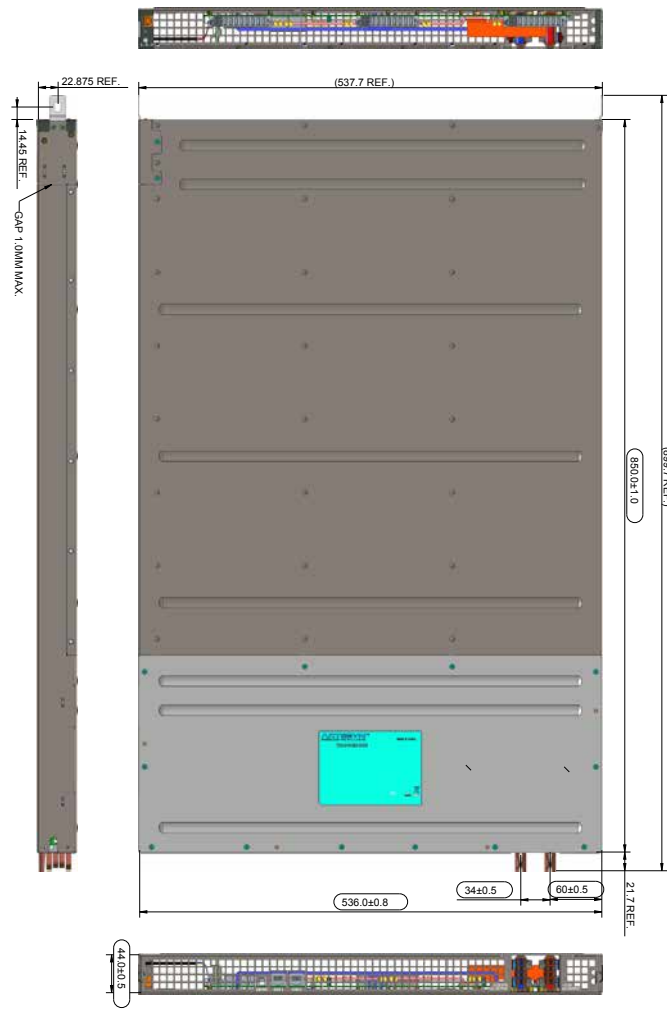
ELECTRICAL SPECIFICATIONS

Input	BBS	BBU
Input voltage	12.45 - 13.0 Vdc	12.45 - 13.0 Vdc
Input current	37.5 A maximum	12.5 A maximum
Charging time (@ 25 °C)		5.5 hours at 2.0 A charge current
Charger efficiency		>90% at typical operating conditions
Output	BBS	BBU
Output voltage	12.25 - 12.50 Vdc	12.25 - 12.50 Vdc
Output voltage at discharge test		12.625 - 12.85 Vdc
Output ripple	120 mVp-p	120 mVp-p
Output current	357 A maximum	119 A maximum
Backup power	4,400 Watts (full configuration)	1,470 Watts
Backup time at 100% power	900 seconds	900 seconds

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	10 °C to 45 °C
Storage/transportation temperature	-20 °C to 60 °C for 12 months maximum (BBS, BBU) or -30 °C to 60 °C for one month maximum (BBU)
Operating relative humidity	5 to 80%, non-condensing
Non-operating relative humidity	5 to 95% non-condensing
Operating altitude	3050 m (10,000 feet)
Non-operating altitude	Up to 30,000 feet above sea level
Shock and vibration	IEC78-2 and IEC721-3
Gaseous contamination	Severity Level G1 per ANSI/ISA 71.04-1985
MTBF (BBU)	250,000 hours at 35 °C in charge/idle/discharge modes
Life span (BBU)	Five (5) years at typical operating conditions at 25 °C

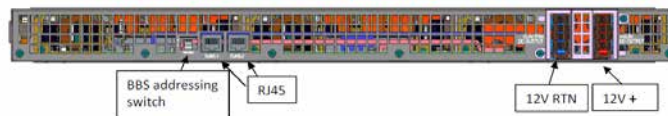
MECHANICAL DRAWINGS - BBS



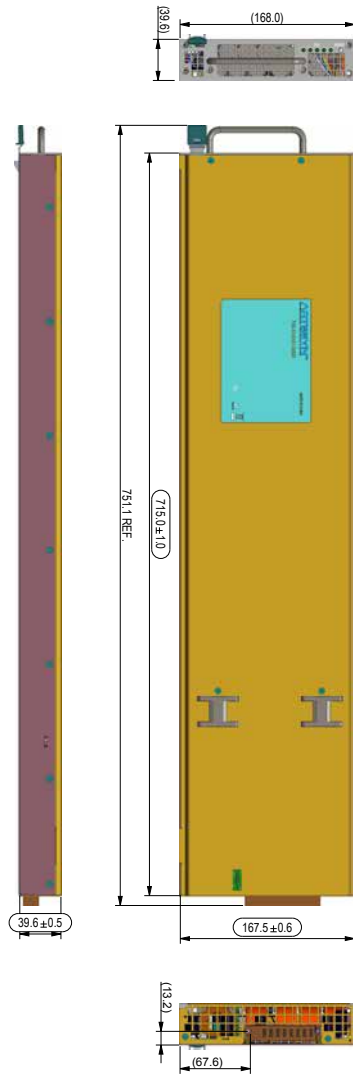
Front panel view



Back panel view



MECHANICAL DRAWINGS - BBU



Front panel view





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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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