

# BROAD-BAND SERIES



## BBA-160RT

**VALVE REGULATED LEAD ACID BATTERY  
FOR BROADBAND STANDBY POWER APPLICATIONS**

### APPLICATIONS

- Cycling Applications
- Mobility Markets
- Medical
- Elevator
- Electric Wheelchair
- Electric Bikes

### FEATURES & BENEFITS

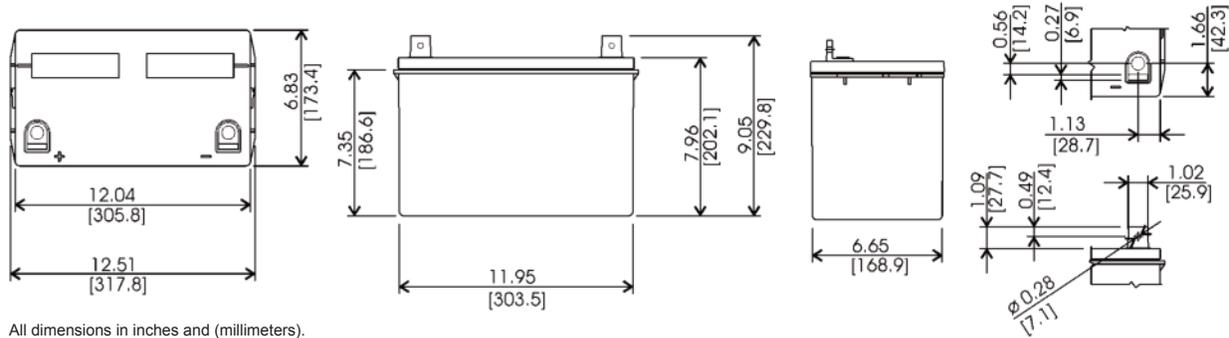
- Flame-arresting one-way pressure-relief vent for safety and long life.
- Thermally welded case-to-cover bond to ensure a leak-proof seal.
- Thick positive plate design for maximum service float life.
- Case and cover of high-impact polypropylene.
- Removable carrying handles.
- Gas recombination efficiency of up to 99% for freedom from electrolyte maintenance.
- Designed to meet full published ratings at initial start-up installation
- Multicell design for ease of installation and maintenance.
- Complies with UN 2794.
- UL-recognized component.
- Not restricted for surface transport-classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- Can be used in any orientation. Upright, side or end mounting recommended.

### 12 Volts - 88 Ampere Hour Capacity @ 20 Hour Rate

Discharge in Hours	.25	.50	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	48.00	72.00	100.00
Amp-Hr Capacity	35.9	45.2	54.3	62.0	67.6	71.0	74.0	76.0	77.5	79.0	81.4	83.6	88.0	88.4	89.8	90.9	92.0

### BBA-160RT - Specifications

Cells Per Unit	Voltage Per Unit	Max. Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	10 Sec. Volts @100 Amps	Ohms Imped. 60 Hz (Ω)
6	12.84	62 lbs. (28 kg)	Absorbed H <sub>2</sub> SO <sub>4</sub>	800 Amps	3300 Amps @ 0.1 sec	11.6	0.0040 Ohms



All dimensions in inches and (millimeters).  
All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

<b>Capacity</b>	88 Ah @ 20 hour rate to 1.75 volts per cell @ 77°F (25°C)
<b>Operating Temperature Range</b>	<b>Discharge;</b> -40°F (-40°C) to + 160°F (71°C), <b>Charge;</b> -10°F (-23°C) to+ 140°F (60°C) with temperature compensation
<b>Nominal Operating Temperature Range</b>	+ 74°F (23°C) to +80°F (27°C)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 77°F (25°C)
<b>Recommended Maximum Charging Current Limit</b>	C <sub>20</sub> /5 amperes 17.6 amperes
<b>Maximum AC Ripple (Charger)</b>	0.5 % RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum AC ripple voltage allowed = 1.4% RMS (4% P-P) Maximum AC ripple current allowed = 4.4 amperes RMS (C <sub>20</sub> /20)
<b>Self Discharge</b>	Broadband batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
<b>Accessories</b>	Inter unit connectors, and racks are available.
<b>Terminal</b>	"L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.
<b>Terminal Hardware Initial Torque</b>	65 in.-lbs. (7.4 n-m).
<b>Terminal Hardware Annual Retorque</b>	52 in.-lbs. (5.8 n-m).

### Constant Current Discharge Ratings - Amperes @ 77°F (25°C) to 1.75 Volts per cell

Amperes	5	10	15	20	25	30	35	40	45	50
Run Time (Minutes)	1042	475	295	208	160	125	103	87	75	66

### Constant Current Discharge Ratings - Amperes @ 77°F (25°C) Operating Time to End Point Voltage (in hours)

End Point Volts/Cell	.25	.50	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	48.00	72.00	100
1.75	144	90.0	54.3	31.0	22.5	17.8	14.8	12.7	11.1	9.90	8.14	6.97	4.40	3.68	1.87	1.26	0.92
1.80	132	85.0	51.0	30.3	22.0	17.3	14.4	12.3	10.8	9.60	7.98	6.75	4.30	3.61	1.85	1.25	0.90
1.85	120	77.0	47.7	28.2	20.5	16.2	13.5	11.6	10.2	9.10	7.60	6.50	4.11	3.45	1.78	1.20	0.87
1.90	101	68.0	41.4	25.4	18.5	14.7	12.3	10.6	9.30	8.40	6.95	5.93	3.83	3.24	1.63	1.11	0.81

**Note:** Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum and free air ventilation. Specifications subject to change without notification.