

# BROAD-BAND SERIES



## BBA-160RT

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

### APPLICATIONS

- Broadband
- WIFI
- Traffic Management
- Reverse Power Systems

### FEATURES & BENEFITS

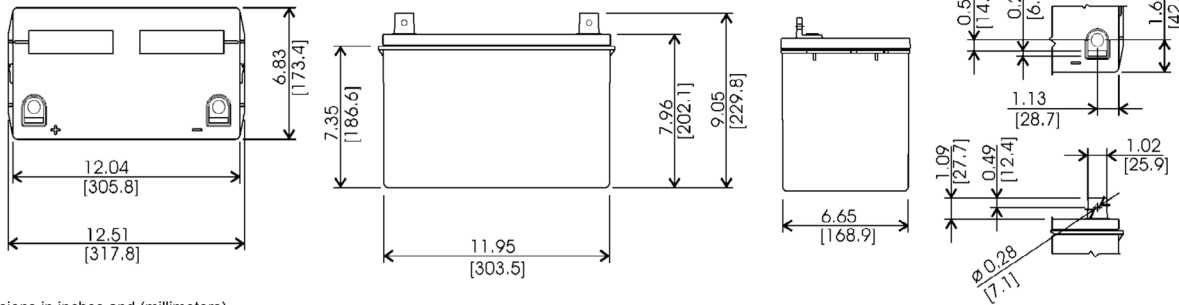
- Flame-arresting one-way pressure-relief vent for safety and long life.
- Thermally welded case-to-cover bond to ensure a leak-proof seal.
- Thick positive plate design for maximum service float life.
- Case and cover of high-impact polypropylene.
- Removable carrying handles.
- Gas recombination efficiency 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 H2SO4 | 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),<br><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.<br>Maximum AC ripple voltage allowed = 1.4% RMS (4% P-P)<br>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)

| End Point Volts/Cell | Operating Time to End Point Voltage (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  |
| 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                 |  | 68.0 |      | 25.4 |      | 14.7 |      | 10.6 |      | 8.40 |       | 5.93  |       | 3.24  |       | 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.

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