



BROAD-BAND SERIES



BBG-165RT

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

FEATURES & BENEFITS

APPLICATIONS

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

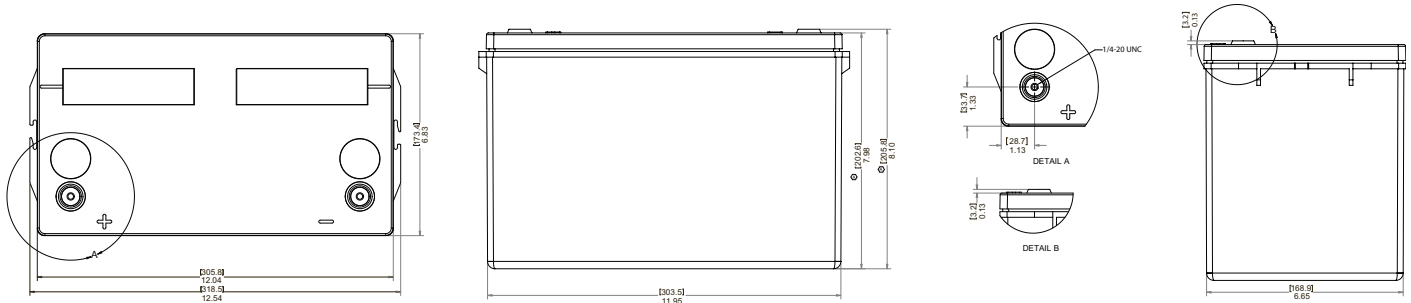
- Flame-arresting one-way pressure-relief vent for safety and long life.
- Thermally welded case-to-cover bond to ensure a leak-proof seal.
- Thick positive plate design for maximum service float life.
- Case and cover of high-impact polypropylene.
- Removable carrying handles.
- Gas recombination efficiency 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.
- UL-recognized component.
- Gelled electrolyte for superior float service life and thermal management.

12 Volts - 86 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	33.9	45.5	55.9	65.6	70.5	73.6	75.9	77.6	79.0	80.2	82.0	83.3	86.0	87.7	91.0	92.5	93.6

BBG-165RT - Specifications

Cells Per Unit	Voltage Per Unit	Weight	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	63 lbs. (29 kg)	800 Amps	2300 Amps @ 0.1 sec	0.0055 Ohms



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

Capacity	86.0 Ah @ 20 hour rate to 1.75 volts per cell @ 77°F (25°C)
Operating Temperature Range	Discharge; -40°F (-40°C) to + 160°F (71°C), Charge; -10°F (-23°C) to+ 140°F (60°C) with temperature compensation
Recommended Operating Temperature Range	+ 74°F (23°C) to +80°F (27°C)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 77°F (25°C)
Recommended Maximum Charging Current Limit	C ₂₀ /5 Amperes (17.2 amperes)
Maximum AC Ripple (Charger)	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 = 4.3 amperes RMS (C ₂₀ /20)
Self Discharge	Dynasty 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.
Accessories	Inter unit connectors, and racks are available.
Terminal	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt
Terminal Hardware Torque	110 in.-lbs. (12.4 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)	1022	480	305	218	165	134	111	93	80	70

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	135.6	91.0	55.9	32.8	23.5	18.4	15.2	12.9	11.3	10.0	8.20	6.90	4.30	3.70	1.90	1.29	0.94
1.80	126.3	87.5	54.6	32.2	23.1	18.1	14.9	12.7	11.1	9.90	8.10	6.80	4.30	3.60	1.87	1.27	0.92
1.85	112.7	80.0	51.1	30.7	22.1	17.4	14.4	12.3	10.7	9.50	7.80	6.60	4.10	3.50	1.81	1.23	0.90
1.90	96.0	68.8	44.7	27.5	20.1	16.0	13.3	11.3	9.90	8.80	7.30	6.20	3.90	3.30	1.68	1.14	0.83

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.

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