

BROAD-BAND SERIES



BBG-165RT VALVE REGULATED LEAD ACID BATTERY FOR BROADBAND STANDBY POWER APPLICATIONS

FEATURES

- 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.
- Gelled electrolyte for superior float service life and thermal management.
- Can be used in any orientation. Upright, side or end mounting recommended.

12 Volts – 86 Ampere Hour Capacity @ 20 Hour Rate

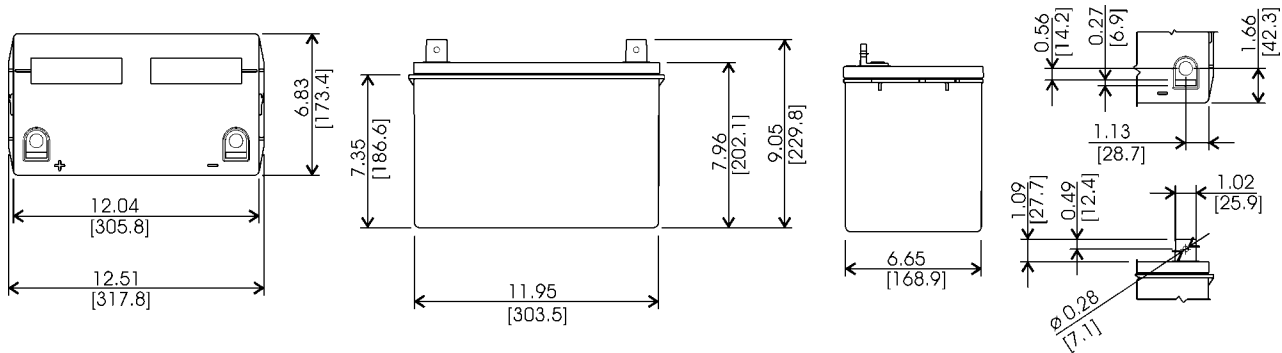
Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)

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	100.0
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

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BBG-165RT



BBG-165RT – Specifications

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

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	63 lbs. 29 kg.	Gelled H ₂ SO ₄ SG = 1.300	800 Amps	2300 Amps @ 0.1 sec.	11.2	0.0055 Ohms
Capacity		86.7 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)					
Nominal Operating Temperature Range		+74° F (23° C) to +80° F (27° C)					
Float Charging Voltage		13.5 to 13.8 VDC/unit Average @ 77° F (25° C)					
Recommended Maximum Charging Current Limit		C/5 amperes (17.2 amps @ 100% depth of discharge) @ 20 hour rate					
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)					
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, racks and cabinet systems are available.					
Terminal		"L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.					
Terminal Hardware Initial Torque		65 in.-lbs. (7.4 n-m).					
Terminal Hardware Annual Retorque		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)	1022	480	305	218	165	134	111	93	80	70

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	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.