





POWER YOU CAN DEPEND ON.

C&D Technologies delivers world-class power solutions for mission-critical industrial applications around the world. As a trusted power solutions provider for more than 100 years, C&D is committed to providing high quality, reliable and cost-effective products and services.

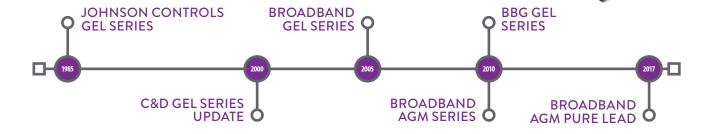
Since 2002, C&D has sold over 5 million batteries into the broadband cable market. The Broadband Series including VRLA AGM and Gel batteries has been specifically designed and manufactured to deliver outstanding performance — even in harsh environments and extreme temperatures.

Uptime is critical in the broadband market. C&D's Broadband Series delivers a highly reliable, yet cost-effective solution for power you can depend on.

APPLICATIONS

- Broadband
- ◆ Wi-Fi
- Wireless
- Medical
- Security
- Reverse Power Systems
- ◆ Traffic Management
- Industrial UPS

TIMELINE OF THE BROADBAND SERIES





BEA BROADBAND aGM

BBA Pure Lead AGM batteries offer a longer service life for use in broadband applications. These versatile batteries can be used in upright, side or end-mounted orientations.

- Industry leading capacity up to 255 runtime minutes
- Proprietary MSE Pure Lead Plus Technology provides extended service life in elevated temperature applications
 - + 7+ year service life in uncontrolled environments
- Proprietary high-density paste reduces float current

 - → 20% better float current than standard AGM
- Efficient gas recombination decreases gassing/water loss
- Operating temperature range:
 - → Discharge: -40°F to 160°F
 - + Charge: -10°F to 140°F (with temperature compensation)

B2G | BROADBAND GEL

BBG Gel Technology extends battery life with superior heat-transfer capability, and has a proven float-life expectancy in extreme temperature environments. Its ideal design provides excellent stand-by times at critical rates.

- Gelled electrolyte for superior thermal management
 - + Ideal for temperature extremes including high heat and low temperatures
 - + 5+ year service life
- Up to 220 runtime minutes
- Operating temperature range:
 - → Discharge: -40°F to 160°F
 - + Charge: -10°F to 140°F (with temperature compensation)
- Proven Low Cost of Ownership
- Efficient gas recombination decreases gassing/water and extends battery life

CHOOSING THE RIGHT TECHNOLOGY FOR YOUR LOCATION: GEL VS. AGM

C&D's BBA and BBG series batteries are specifically designed for broadband applications, making them ideally suited to meet all CATV site requirements. The gelled electrolyte used in the BBG series is specially formulated for the broadband industry. BBG batteries are designed for superior performance in areas with extreme temperatures. Gel batteries more effectively dissipate internal heat, reducing the risk of thermal runaway. This is due to the thermal mass of the gelled electrolyte within the battery. In locations with moderate temperatures C&D's BBA series can provide a longer service life and increased runtimes. These benefits are achieved by incorporating C&D's proven MSE Pure Lead Plus Technology, which lowers the float current.





RUGGED DESIGN

In any application where the battery may face extreme temperatures, shock, or vibration conditions, a rugged case is key to maintaining battery performance over time. C&D's Broadband Series batteries are encased in a strong polypropylene case which has the lowest water permeability compared to other plastic resins typically used for standby batteries. Its ribbed jar walls sustain cell compression and provide cooling channels to dissipate heat. The case is designed to be able to operate in all environments, including extreme temperatures and rigorous applications.

SUPERIOR POSITIVE PLATE DESIGN AND ALLOY

C&D Technologies' superior grid technology allows direct power transfer to/from the point of contact, maximum recharge efficiency, and low resistance. C&D's thick plate technology is robust and more resistant to stresses encountered in its service life. Highly efficient, proprietary plate processing offers high utilization of active material resulting in high energy density. BBG and BBA utilize advanced lead alloys designed to minimize positive grid corrosion and increase service life.

BBA

- Ultra high purity 99.99% pure lead used in advanced grid alloy for exceptional service life
- MSE pure lead paste using ultra-high purity 99.99% pure lead oxide
- Centered lug for improved performance
- Radial grid design for reduced resistance and enhanced moderate to high rate performance

BBG

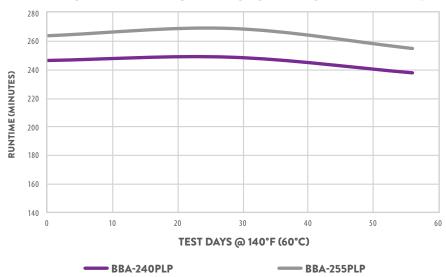
- Proprietary grain refiners extend life
- Centered lug for improved performance
- Large grid wires improve life



MSE PURE LEAD PLUS TECHNOLOGY

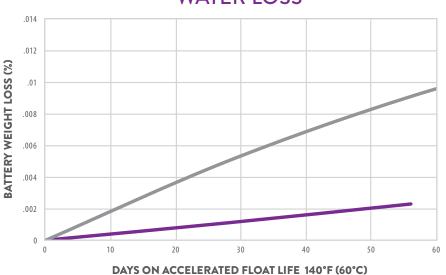
Historically AGM batteries were not well suited for uncontrolled environments due to a high risk of accelerated grid corrosion and dry-out. The BBA-PLP series is designed specifically to operate in uncontrolled environments found in CATV applications. The well-balanced VRLA battery design incorporates MSE Pure Lead Plus Technology resulting in lower float currents and minimized water loss. The outcome is the highest energy density AGM battery able to withstand uncontrollable environments in the CATV market.

BBA PURE LEAD SERIES CAPACITY RETENTION



- AGM Batteries are best suited in applications where high discharge currents are needed.
- MSE Pure Lead Plus Technology (BBA) slows aging reactions, resulting in longer service life.



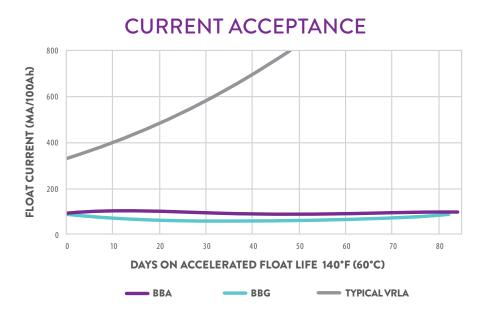


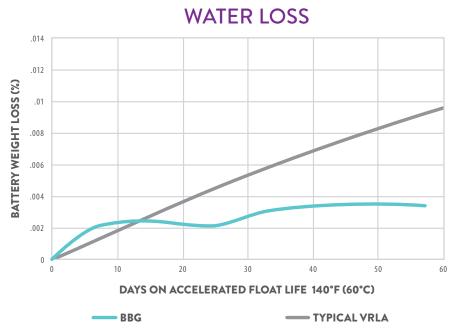
 The MSE Pure Lead Plus Technology in the BBA significantly reduces water loss, a critical component to long life at high temperatures.

■ BBA ■ TYPICAL VRLA

GEL TECHNOLOGY

The BBG series uses gel technology to achieve high temperature stability. A silica is used in the BBG series to create a gelled electrolyte. The thermal mass of this electrolyte allows it to dissipate heat more effectively than a traditional or pure lead AGM battery. Unlike AGM separators, the separators used in the BBG series are made of polyethylene which aids in maintaining low float current when operating in elevated temperatures.





The use of permeability plastics and a balanced cell in our BBG batteries significantly help reduce water loss, which contribute to long life at high temperatures and prevent dryout.



	SPECII	FICATIONS						
RUNTIME @ 25 AMP	GEL	BBG-180RT - 180 Minutes BBG-195RT - 195 Minutes BBG-220RT - 220 Minutes						
CONSTANT CURRENT LOAD	PURE LEAD AGM	BBA-240PLP - 240 Minutes BBA-255PLP - 255 Minutes						
OPERATING TEMPERATURE RANGE		0°C) to +160°F (+71°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/uni	t Average at +77°F (+25°C)						
RECOMMENDED MAXIMUM CHARGING CURRENT LIMIT	C ₂₀ /5 Amperes (23.12	2 a)						
MAXIMUM AC RIPPLE (CHARGER)	Maximum AC ripple	P of Float Charge Voltage recommended for best results. voltage allowed = 1.4% RMS (4% P-P) current allowed = 4.6 amperes RMS (C ₂₀ /20)						
	GEL	18 Months at +77°F (+25°C) and then a freshening charge is required						
SELF DISCHARGE	PURE LEAD AGM	24 Months at +77°F (+25°C) and then a freshening charge is required						
	NOTE: For higher temperatures the time interval will be shorter for BBA & BBG							
ACCESSORIES	Inter unit connectors and racks are available							
TERMINAL	1/4-20 UNC bolt							
TERMINAL HARDWARE TORQUE	110 Inlbs. (12.4 N-m)						

MODEL NAME VOLTAGE	VOLTAGE	RUNTIME MINUTES TO 25 AMPS @ 77°F (25°C) TO 1.75 VPC)		CONSTANT CURRENT DISCHARGE RATINGS - AMPERES @ 77 F (25 C)												DISCHARGE C				WEIGHT LBS. (kg)	
				OPERATING TIME (Hr) TO 1.75 VOLTS PER CELL													SHORT CIRCUIT CURRENT	DIMENSIONS INCHES (mm)			
			0.5	0.75	1	2	3	4	5	8	10	12	20	48	100			LENGTH	WIDTH	HEIGHT	
											BBA										
BBA-240PLP	12 VOLT	240	125.80	90.50	72.10	42.80	31.40	25.00	20.50	13.50	11.00	9.33	5.78	2.50	1.23	800 AMPS	4400 AMPS	13.42 (341)	6.80 (173)	8.48 (215)	75 (34)
BBA-255PLP	12 VOLT	255	133.7	96.9	77.0	45.20	32.90	25.80	21.20	13.90	11.40	9.61	6.08	2.57	1.27	800 AMPS	4800 AMPS	13.42	6.80	8.48	79 (36)
																		(341)	(173)	(215)	(50)
																		(341)	(1/3)	(215)	(50)
MODEL	VOLTAGE	RUNTIME MINUTES TO 25			CONST	TANT CU							F (25°C)			MAXIMUM	SHORT		SIONS INCH		(50)
MODEL NAME	VOLTAGE) 1	2	CONST			DISCHAI TIME (I					F (25°C)	72	100	MAXIMUM DISCHARGE CURRENT	SHORT CIRCUIT CURRENT				
	VOLTAGE	MINUTES TO 25 AMPS @ 77°F (25°C)		2			RATING	TIME (I	Hr) TO 1.	.75 VOL	TS PER C	ELL 24		72	100	DISCHARGE	CIRCUIT	DIMEN	SIONS INCH	ES (mm)	WEIGHT
	VOLTAGE 12 VOLT	MINUTES TO 25 AMPS @ 77°F (25°C)	1		3		6	TIME (I	1r) TO 1.	.75 VOL	TS PER C	ELL 24		1.30	0.90	DISCHARGE	CIRCUIT	DIMEN	SIONS INCH	ES (mm)	WEIGHT

5.50 | 4.60 | 2.40 | 1.60 | 1.20



BBG-220RT

12 VOLT

220

67.70 | 40.40 | 29.10 | 22.90 | 16.10 | 12.60 | 10.20 | 8.70



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13.42 (341)

2600 AMPS

800 AMPS

6.80 (173) 8.48 (215) 73 (33)