



VRLA Rechargeable Battery

EB12-12

FEATURES

- Absorbent Glass Mat technology for efficient gas recombination
- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- The battery is designed for high power & high cyclic usage
- Its design life is approx.300 cycles at 100% discharge in cycle service at 77°F/25°C

APPLICATION

- UPS
- Lawn Mowers
- Wheelchairs
- E-bike
- Golf-Carts
- Electrical Scooter

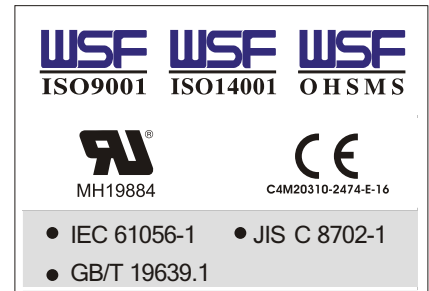
SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (0.6A, 10.5V)	12.0 Ah
	2 Hour Rate (5.0A, 9.6V)	10.0 Ah
Approx. Weight	4300g(9.48lbs.)	
Terminals	T2 (Faston Tab 250)	
Max. Discharge Current	180 A (5 sec.)	
Max. Charge Current	3.60 A	
Operating Temperature Range	Charge	0°C~40°C(32°F~104°F)
	Discharge	-20°C~50°C(-4°F~122°F)
	Storage	-20°C~40°C(-4°F~104°F)
Self Discharge	< 3% per month (25°C)	
Internal Resistance	≤14mΩ (Fully Charged)	

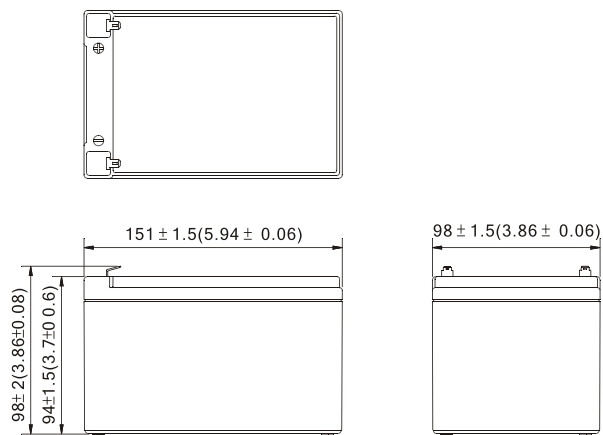


CONTAINER MATERIAL

- Standard: ABS(UL 94-HB)
Model Name: EB12-12
- Optional: Flame Retardant ABS(UL 94-V0)
Model Name: EB12-12FR

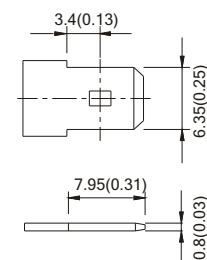


OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
		151±1.5(5.94±0.06)	98±1.5(3.86±0.06)	94±1.5(3.70±0.06)

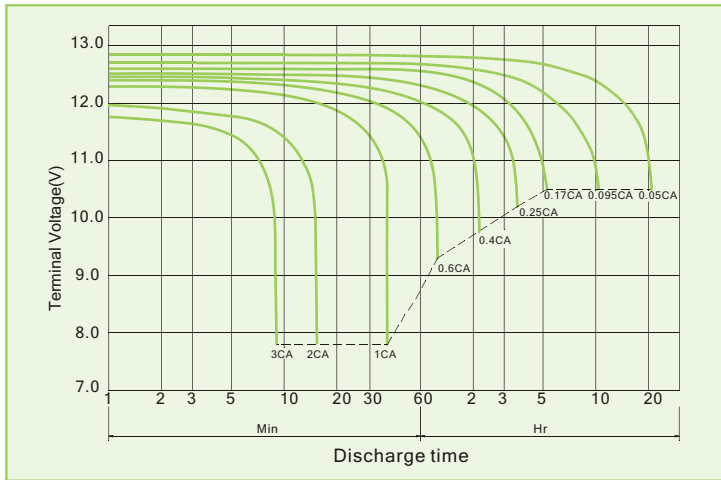


TERMINAL TYPE

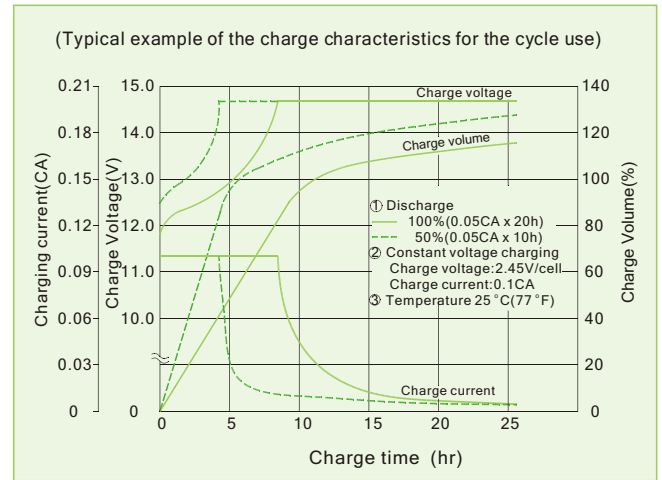
- Terminal T2



EB12-12 (EB12-12FR) discharge characteristics (25°C /77°F)



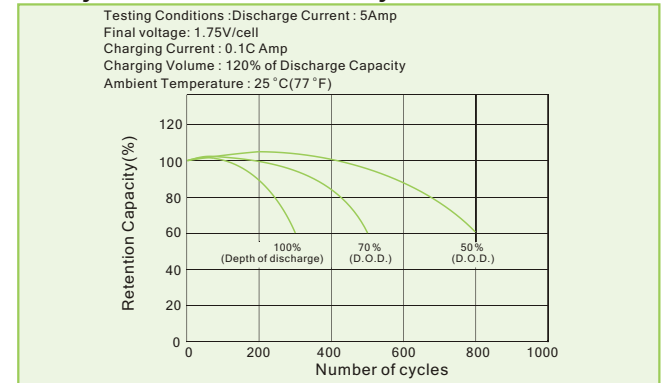
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C /cell)	Max. charging current (CA)	Charging time 0.1CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

Battery Life Characteristics of Cyclic Use



Constant power discharge characteristics at 25°C/77°F Unit: W

Discharge Time \ F.V. (V/cell)	10 Min	15 Min	30 Min	40 Min	1 Hr	2 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	323.2	261.7	164.6	130.5	99.6	56.8	42.0	26.6	13.47	7.05
1.75V	350.2	274.0	170.9	135.2	102.5	58.2	42.8	27.0	13.68	7.20
1.70V	362.8	282.3	174.7	138.0	104.3	58.9	43.2	27.2	13.75	7.23
1.65V	371.5	288.9	177.2	139.9	105.7	59.8	43.6	27.4	13.78	7.25
1.60V	378.8	294.6	179.0	141.3	106.8	60.0	43.8	27.4	13.78	7.25
1.50V	386.4	300.5	180.8	142.7	107.9	60.6	44.1	27.4	13.78	7.25

Constant current discharge characteristics at 25°C/77°F Unit: A

Discharge Time \ F.V. (V/cell)	10 Min	15 Min	30 Min	40 Min	1 Hr	2 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	28.4	22.8	13.9	11.0	8.4	4.73	3.50	2.22	1.123	0.588
1.75V	30.8	23.8	14.5	11.4	8.6	4.85	3.58	2.25	1.140	0.600
1.70V	31.9	24.6	14.8	11.6	8.8	4.91	3.60	2.26	1.145	0.602
1.65V	32.7	25.1	15.0	11.8	8.9	4.98	3.62	2.28	1.150	0.605
1.60V	33.4	25.6	15.2	11.9	9.0	5.00	3.65	2.28	1.150	0.605
1.50V	34.0	26.1	15.3	12.0	9.1	5.05	3.67	2.28	1.150	0.605

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained herein.

A/4 REV. Apr. 2013

USA:
B&B BATTERY(USA) INC.
6415 RANDOLPH ST. COMMERCE, CA, 90040 U.S.A.
TEL: 1-323-278-1900, 1-800-278-8599
FAX: 1-323-278-1268
E-Mail: sales@bb-battery.com

CHINA FACTORY:
B.B. BATTERY CO., LTD.
CHENG DONG TRIAL AREA, HUANG GANG,
RAOPING, GUANG DONG, CHINA, 515700
TEL: 86-768-7601001-2
FAX: 86-768-7601469
E-Mail: maggy@bb-battery.com

EUROPE:
B&B BATTERY(EUROPE) B.V.
SUITE 8, HAAKSBERGWEG 33, 1101
BP AMSTERDAM, THE NETHERLANDS
TEL: 31-30-320-0190
MOBILE: 852-9128-2711
E-Mail: dliu@bb-battery.com

HONG KONG:
B&B BATTERY(Hong Kong) Co.
TEL: 852-2311-4918
FAX: 852-2739-1182
E-Mail: bbhk@hkstar.com

JAPAN:
B&B BATTERY(JAPAN) CO., LTD.
1375-11 NARAHARA-MACHI, HACHIOJI,
TOKYO 193-0803, JAPAN.
TEL: 81-426-25-6375
FAX: 81-426-25-6375
E-Mail: miyata@bb-battery.com

TAIWAN:
B.B. BATTERY(TAIWAN) CO., LTD.
TEL: 886-6-502-5150
FAX: 886-6-589-8087
E-Mail: kevinlin@bb-battery.com