



VRLA Rechargeable Battery

EB80-12

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

APPLICATIONS

- UPS
- Wheelchairs
- Lawn Mowers
- Golf-Carts
- Electric Motorcycle



UL
MH19884



- IEC 60896-21/22
- JIS C 8704-2
- GB/T 19638.1

SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	80.0Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	25.5Kg(56.22lbs.)
Terminals	I2 (M6 Female thread)
Internal Resistance	≤5mΩ (Fully Charged)
Max. Discharge Current	800 A (5 sec.)
Max. Charge Current	24.0 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)
Container Material	Standard: ABS(UL94 HB) EB80-12 Optional: Flame Retardant ABS(UL94 V-0) EB80-12FR

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

260±2.0 (10.24±0.08)

Width

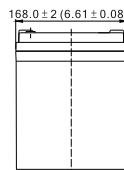
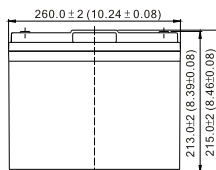
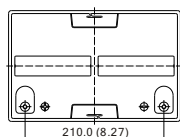
168±2.0 (6.61±0.08)

Container Height

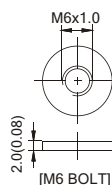
215±2.0 (8.46±0.08)

Total Height

215±2.0 (8.46±0.08)



Terminal I2



Terminal Hardware Initial Torque: I2(5.5Nm±5%)

Constant power discharge characteristics at 25 °C/77 °F

Unit: W

F.V. (V/cell)	Discharge Time	10 Min	15 Min	30 Min	40 Min	1 Hr	2 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V		2154.7	1744.8	1097.4	870.1	664.0	374.4	280.0	177.4	89.8	46.98
1.75V		2334.4	1826.7	1139.5	901.6	683.2	384.0	285.3	179.7	91.2	48.00
1.70V		2418.7	1881.9	1164.5	919.7	695.2	387.8	288.0	181.1	91.7	48.22
1.65V		2476.5	1925.9	1181.4	932.5	704.8	391.7	290.7	182.4	91.9	48.34
1.60V		2525.6	1963.8	1193.4	941.9	712.0	393.6	292.0	182.4	91.9	48.37
1.50V		2576.3	2003.0	1205.4	951.4	719.5	393.6	293.8	182.4	91.9	48.37

Constant current discharge characteristics at 25 °C/77 °F

Unit: A

F.V. (V/cell)	Discharge Time	10 Min	15 Min	30 Min	40 Min	1 Hr	2 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V		189.6	151.7	93.0	73.4	55.8	31.2	23.4	14.8	7.5	3.92
1.75V		205.4	158.9	96.6	76.2	57.4	32.0	23.8	15.0	7.6	4.00
1.70V		213.0	163.7	98.7	77.6	57.6	32.3	24.0	15.1	7.6	4.02
1.65V		218.1	167.5	100.2	78.7	59.2	32.6	24.2	15.2	7.7	4.03
1.60V		222.4	170.7	101.1	79.5	59.8	32.8	24.3	15.2	7.7	4.03
1.50V		226.7	174.2	102.1	80.3	60.5	32.8	24.5	15.2	7.7	4.03

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

For operation, please refer to the instruction from technical manual.

B/3 REV. May. 2025

Powered by B.B. Tech(Changsha) Co., Ltd.