



VRLA Rechargeable Battery

EB20-12



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
- Low self-discharge rate, lower than 3% capacity loss per month

APPLICATION

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



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	20Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	6450g(14.22lbs.)
Terminals	B1 (Fitting M5 bolt & nut) I1 is optional
Internal Resistance	≤ 11mΩ (Fully Charged)
Max. Discharge Current	300 A (5 sec.)
Max. Charge Current	6.0 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(UL 94-HB) EB20-12 Optional: Flame Retardant ABS(UL 94-V0) EB20-12FR

ISO9001 **MH19884**

ISO14001 **CAM20310-2474-E-16**

OHSMS

- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<p>■ Length 181±1.5 (7.13±0.06)</p> <p>■ Width 76±1.5 (2.99±0.06)</p> <p>■ Container Height 166±1.5 (6.54±0.06)</p> <p>■ Total Height 166±1.5 (6.54±0.06)</p>		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>● Terminal B1</p> <p>[M5 BOLT & NUT]</p> </div> <div style="text-align: center;"> <p>● Terminal I1</p> <p>[M5 BOLT & NUT]</p> </div> </div> <p>Terminal Hardware Initial Torque: B1(2.5Nm±5%), I1(4.0Nm±5%)</p>

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		538.5	436.1	274.2	217.4	162.8	85.5	70.1	44.4	22.44	11.76
1.75V		583.5	456.8	285.1	225.4	167.5	87.8	71.5	44.9	22.80	12.00
1.70V		604.8	470.6	291.2	229.7	170.3	88.7	72.0	45.2	22.92	12.12
1.65V		619.3	481.6	295.5	233.0	172.6	89.6	72.5	45.6	23.04	12.24
1.60V		631.6	490.8	298.3	235.4	174.5	90.0	73.0	45.7	23.04	12.24
1.50V		643.9	500.9	301.1	237.7	176.3	90.5	73.4	45.7	23.04	12.24

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		47.4	37.9	23.2	18.4	13.68	7.13	5.84	3.70	1.87	0.98
1.75V		51.4	39.7	24.2	19.0	14.07	7.31	5.96	3.74	1.90	1.00
1.70V		53.2	40.9	24.7	19.4	14.31	7.39	6.00	3.77	1.91	1.01
1.65V		54.5	41.9	25.0	19.7	14.50	7.46	6.04	3.80	1.92	1.02
1.60V		55.6	42.7	25.3	19.9	14.66	7.50	6.08	3.81	1.92	1.02
1.50V		56.7	43.6	25.5	20.1	14.82	7.54	6.12	3.81	1.92	1.02

All data and artworks shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.
A/2 REV. Jul. 2013