



# 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



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

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<b>Length</b> 181±1.5 (7.13±0.06)		<p>Terminal Hardware Initial Torque: B1(2.5Nm±5%), I1(4.0Nm±5%)</p>
<b>Width</b> 76±1.5 (2.99±0.06)		
<b>Container Height</b> 166±1.5 (6.54±0.06)		
<b>Total Height</b> 166±1.5 (6.54±0.06)		

### 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