



VRLA Rechargeable Battery

EB50-12



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	50Ah @ 20 hour rate F.V.(1.75V/cell)
Approx. Weight	16500g(36.38lbs.)
Terminals	I2 (M6 Female thread)
Internal Resistance	$\leq 6m\Omega$ (Fully Charged)
Max. Discharge Current	750 A (5 sec.)
Max. Charge Current	15 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) EB50-12 Optional: Flame Retardant ABS(UL 94-V0) EB50-12FR



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

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
Length 197±1.5 (7.76±0.06) Width 165±1.5 (6.50±0.06) Container Height 171±1.5 (6.73±0.06) Total Height 171±1.5 (6.73±0.06)		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		1346.7	1090.5	685.9	543.8	415.0	228.0	175.0	110.9	56.14	29.36
1.75V		1459.0	1141.7	712.2	563.5	427.0	234.0	178.3	112.3	57.00	30.00
1.70V		1511.7	1176.2	727.8	574.8	434.5	236.4	180.0	113.2	57.29	30.14
1.65V		1547.8	1203.7	738.4	582.8	440.5	238.8	181.7	114.0	57.43	30.21
1.60V		1578.5	1227.4	745.9	588.7	445.0	240.0	182.5	114.0	57.43	30.21
1.50V		1610.2	1251.9	753.4	594.6	449.7	241.2	183.6	114.0	57.43	30.21

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		118.5	94.8	58.1	45.9	34.9	19.0	14.6	9.24	4.68	2.45
1.75V		128.4	99.3	60.4	47.6	35.9	19.5	14.9	9.36	4.75	2.50
1.70V		133.1	102.3	61.7	48.5	36.5	19.7	15.0	9.43	4.77	2.51
1.65V		136.3	104.7	62.6	49.2	37.0	19.9	15.1	9.50	4.79	2.52
1.60V		139.0	106.7	63.2	49.7	37.4	20.0	15.2	9.50	4.79	2.52
1.50V		141.7	108.9	63.8	50.2	37.8	20.1	15.3	9.50	4.79	2.52

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

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