



VRLA Rechargeable Battery

EB50-12 (EB50-12FR)



FEATURES

- 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	ABS(UL94-HB, UL94-V0 is optional)

ISO 9001



ISO14001



UL



CE



- IEC61056
- JIS C 8702
- GB/T 19639

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

197±1.5 (7.76±0.06)

Width

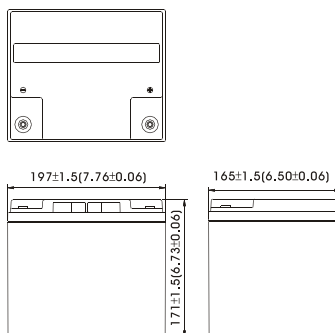
165±1.5 (6.50±0.06)

Container Height

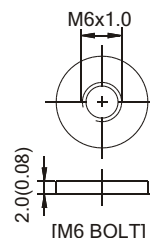
171±1.5 (6.73±0.06)

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 power 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 shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.
A/0 REV. Jul. 2009

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