



## VRLA Rechargeable Battery

# MSB-1500 (MSB-1500FR) (2V, 1500Ah)



### FEATURES

- Sealed structure, no electrolyte leakage or spill.
- High performance alloy to secure corrosion-proof feature.
- Unique electrolyte system achieves maximum service life.
- Low self-discharge rate, lower than 3% capacity loss per month.
- Special paste formula promotes the good charging acceptance.
- Electrolyte with gel technology.

### APPLICATION

- Telecom
- UPS
- Central Office
- Energy Storage Systems



### SPECIFICATIONS

Nominal Voltage	2 V
Nominal Capacity	1500Ah @ 10 hour rate F.V.(1.80V/cell)
Approx. Weight	128.0Kg(282.2lbs.)
Terminals	B6 (Fitting M8 bolt & nut)
Internal Resistance	≤ 0.4m Ω (Fully Charged )
Max. Discharge Current	6000 A (5 sec.)
Max. Charge Current	375 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)
Safety Valve	Opening pressure 10~35 kPa
Container Material	ABS(UL94-HB, UL94-V0 is optional)

ISO 9001	
ISO14001	
UL	
TLC	
TSE	
● IEC60896-21/22	
● JIS C 8704-2	
● GB/T19638.2	
● YD/T799	

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<b>Length</b> 400±2.0 (15.75±0.08) <b>Width</b> 350±2.0 (13.78±0.08) <b>Container Height</b> 341±2.0 (13.43±0.08) <b>Total Height</b> 369±2.0 (14.53±0.08)		● Terminal B6  (M8 BOLT & NUT) Terminal Hardware Initial Torque: 10.0 Nm ± 5%

### Constant power discharge characteristics at 25 °C/77 °F Unit: W

F.V. (V/cell) \ Discharge Time	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr	20 Hr
1.85V	1967.3	1350.0	868.5	676.4	525.8	453.0	403.5	333.8	279.0	241.80	150.66
1.80V	2182.5	1485.0	937.5	716.6	579.0	493.5	429.8	357.0	295.3	253.47	157.99
1.75V	2391.0	1575.0	993.8	754.5	606.6	516.0	448.5	368.3	308.4	262.16	162.69
1.70V	2625.0	1680.0	1027.5	780.2	618.8	528.8	459.8	375.8	318.8	268.28	165.38
1.65V	2820.0	1732.5	1042.5	796.1	631.5	536.3	468.8	382.5	323.3	272.07	166.77
1.60V	2876.3	1747.5	1057.5	803.7	639.0	543.8	471.0	387.0	326.3	273.33	167.25

### Constant current discharge characteristics at 25 °C/77 °F Unit: A

F.V. (V/cell) \ Discharge Time	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	12 Hr	20 Hr
1.85V	1050.0	720.0	457.5	353.7	277.5	234.8	202.5	165.0	140.3	121.55	75.74
1.80V	1170.0	795.0	495.0	375.0	306.0	255.0	217.5	181.5	150.0	128.75	80.25
1.75V	1292.3	847.5	527.3	397.1	321.0	270.0	232.5	189.8	158.3	134.51	83.48
1.70V	1432.5	909.0	549.8	413.8	329.3	279.0	240.0	196.5	164.3	138.24	85.88
1.65V	1533.8	945.8	564.8	427.6	337.5	286.5	249.0	202.5	167.3	140.02	87.00
1.60V	1612.5	969.8	581.3	436.8	343.5	291.0	251.3	206.3	168.8	141.33	87.23

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