VRLA Rechargeable Battery

MSB-500 (MSB-500FR)

(2V, 500Ah)

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	500Ah @ 10 hour rate F.V.(1.80V/cell)
Approx. Weight	36.0Kg(79.4lbs.)
Terminals	B6 (Fitting M8 bolt & nut) I3 is optional
Internal Resistance	≦0.8mΩ (Fully Charged)
Max. Discharge Current	2200 A (5 sec.)
Max. Charge Current	125 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 MH19884

TLC

TSE TS-1352

- IEC60896-21/22
- JIS C 8704-2
- GB/T19638.2
- YD/T799

DIMENSION(mm/inch)

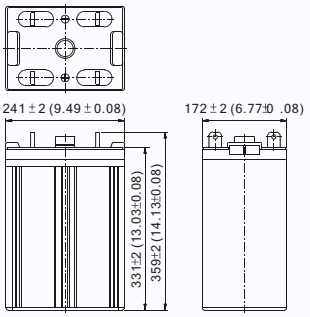
■ **Length**
241±2.0 (9.49±0.08)

■ **Width**
172±2.0 (6.77±0.08)

■ **Container Height**
331±2.0 (13.03±0.08)

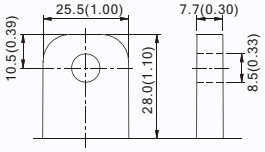
■ **Total Height**
359±2.0 (14.13±0.08)

OUTER DIMENSIONS



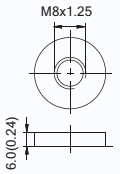
TERMINAL TYPE

● Terminal B6



(M8 BOLT & NUT)

● Terminal I3



(M8 BOLT)

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	655.8	450.0	289.5	225.5	175.3	151.0	134.5	111.3	93.0	80.60	50.22
1.80V	727.5	495.0	312.5	238.9	193.0	164.5	143.3	119.0	98.4	84.49	52.66
1.75V	797.0	525.0	331.3	251.5	202.2	172.0	149.5	122.8	102.8	87.39	54.23
1.70V	875.0	560.0	342.5	260.1	206.3	176.3	153.3	125.3	106.3	89.43	55.13
1.65V	940.0	577.5	347.5	265.4	210.5	178.8	156.3	127.5	107.8	90.69	55.59
1.60V	958.8	582.5	352.5	267.9	213.0	181.3	157.0	129.0	108.8	91.11	55.75

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	350.0	240.0	152.5	117.9	92.5	78.3	67.5	55.0	46.8	40.52	25.25
1.80V	390.0	265.0	165.0	125.0	102.0	85.0	72.5	60.5	50.0	42.92	26.75
1.75V	430.8	282.5	175.8	132.4	107.0	90.0	77.5	63.3	52.8	44.84	27.83
1.70V	477.5	303.0	183.3	137.9	109.8	93.0	80.0	65.5	54.8	46.08	28.63
1.65V	511.3	315.3	188.3	142.5	112.5	95.5	83.0	67.5	55.8	46.67	29.00
1.60V	537.5	323.3	193.8	145.6	114.5	97.0	83.8	68.8	56.3	47.11	29.08

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