



# MSJ Series

## MSJ-1000 Datasheet

2V VRLA-AGM

### Specifications

Voltage (Vdc)	2
Nominal Capacity (1.80 VPC @25°C)	1000 Ah @10hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	1016.00
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	1050.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	984.00
Max Charge Current (A)	300.00
Max Discharge Current (A)	6000
Short Circuit Current (A)	--
Internal Resistance (mΩ)	Approx. 0.28
Terminal Type	I4 thread copper alloy terminal to accept M8 bolt
Terminal Torque	126±25 Kgf·cm / 109±22 Lbf·in / 12.3±2.5 N·m
Container Material	Flame Retardant ABS (UL 94-V0)
Weight (kg. / lb., Approx.)	72.80 / 160.45
Depth (D) (mm / in)	471.0±2.5 / 18.54±0.10
Width (W) (mm / in)	171.0±2.0 / 6.73±0.08
Height (H) (mm / in)	339.0±2.5 / 13.15±0.10
Design Life	Up to 20 Years in Standby Service at 25°C Eurobat (20°C): >12 Years Very Long Life
Operating Temperature	Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F - 104°F)
Float Charging Voltage	2.21 ~ 2.25 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	2.35 Vdc/battery 25°C (77°F)
Self-Discharge	Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).



Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for High Capacity Float Service Standby Power Applications

Built in Accordance with IEC 60896-21/22:2004 and UL1989 Recognized (MH14533)





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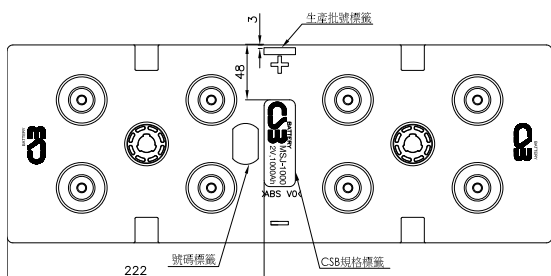
2V VRLA-AGM

### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	15MIN	30MIN	60MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.67V	1660	1179	740	430	358	309	195	165	129	107	53.4	44.5
1.75V	1403	1038	691	417	348	301	190	161	127	105	52.5	43.7
1.80V	1201	919	637	398	335	290	184	157	123	102	51.1	42.6

### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	15MIN	30MIN	60MIN	2HR	2.5HR	3HR	5HR	6HR	8HR	10HR	20HR	24HR
1.67V	3016	2165	1355	823	685	590	388	332	254	199	100	82.9
1.75V	2647	1971	1280	800	669	578	381	327	249	195	97.7	81.4
1.80V	2374	1780	1194	769	645	559	372	319	242	190	94.9	79.1



Detail A Drawing(3:1)

