



# MSV Series

## MSV-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)	984.00
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	1030.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	960.00
Max Charge Current (A)	300.00
Max Discharge Current (A)	6000
Short Circuit Current (A)	--
Internal Resistance (mΩ)	Approx. 0.38
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.)	64.40 / 141.94
Length (L) (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 15 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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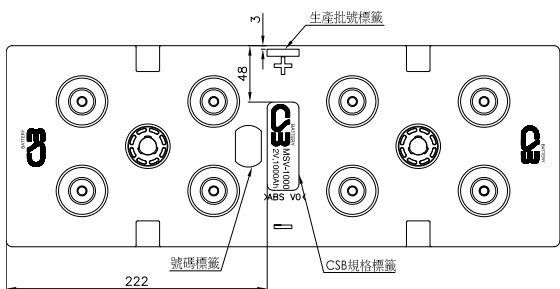
2V VRLA-AGM

### 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	1298	933	618	370	313	273	185	160	130	110	55.0	45.8
1.75V	1052	839	560	343	290	253	173	150	123	103	51.5	42.9
1.80V	915	734	528	330	279	243	168	148	120	100	50.0	41.7

### 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	2134	1648	1150	688	585	513	350	308	248	208	104	86.7
1.75V	1842	1489	1040	643	549	483	333	290	238	200	100	83.3
1.80V	1679	1333	980	618	527	463	323	283	230	198	99.0	82.5



Detail A Drawing(3:1)

