MSV Series

MSV-500 Datasheet

2V VRLA-AGM

Specifications	
Voltage (Vdc)	2
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	512.00
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	424.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	500.80
Max Charge Current (A)	150.00
Max Discharge Current (A)	3000 (5sec)
Short Circuit Current (A)	7258
Internal Resistance	Approx. 0.39 mΩ
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.)	31.20 / 68.76
Length (L) (mm / in)	241.0±2.5 / 9.49±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 and 10 months with equalization charge* at 25C (77F); Full recharging is required before usage, and charged sooner if stored at higher temperature than 25C (77F).

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, UL1973 Listed (MH66728) and UL1989 Recognized (MH14533)

Certified by TUV NORD according to ISO 9001:2015

MH14533

CERTIFIED SAFETY US MH66728

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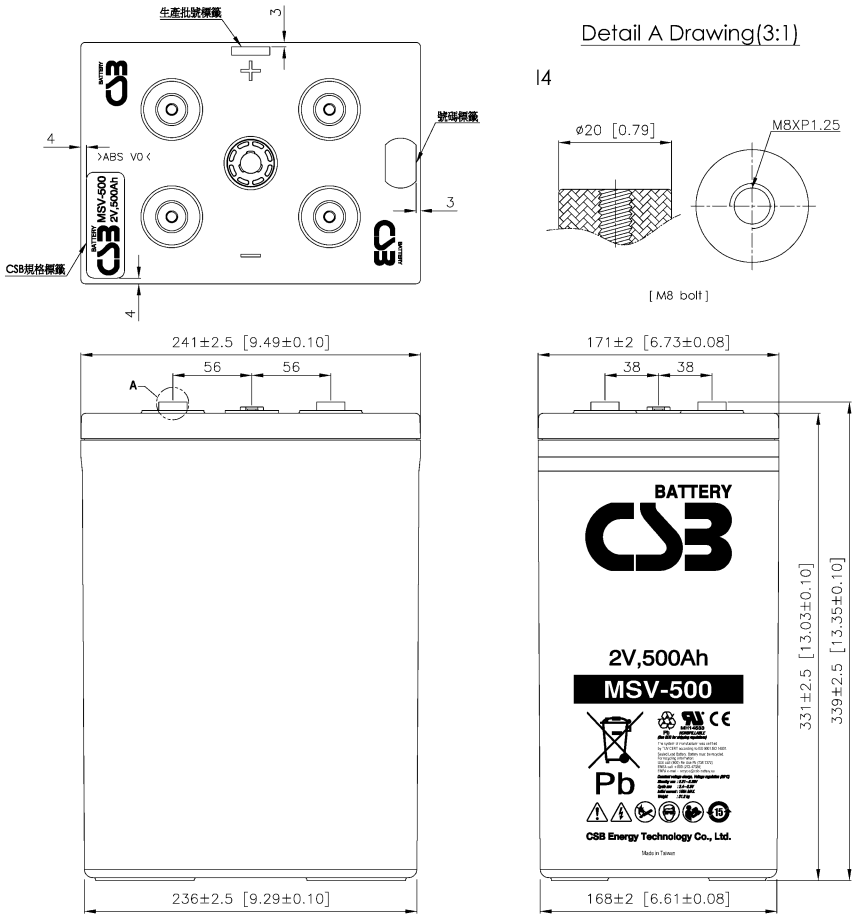
2V VRLA-AGM

Constant Current Discharge Characteristics Per Battery: Amperes (25°C, 77°F)												
F.V/Time	**15MIN**	**30MIN**	**60MIN**	**2HR**	**2.5HR**	**3HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**	**24HR**
1.67V	664	494	326	191	161	140	96.5	82.6	64.6	52.2	26.1	21.8
1.75V	577	460	310	186	157	136	94.5	81.2	63.9	51.2	25.6	21.3
1.80V	512	427	295	177	151	132	91.7	79.1	62.6	50.0	25.0	20.8

Constant Power Discharge Characteristics Per Battery: Watts (25°C, 77°F)												
F.V/Time	**15MIN**	**30MIN**	**60MIN**	**2HR**	**2.5HR**	**3HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**	**24HR**
1.67V	1149	870	581	364	310	272	178	154	124	101	50.5	42.1
1.75V	1038	810	561	352	302	267	176	153	122	99.2	49.6	41.3
1.80V	943	774	531	348	298	263	173	150	120	98.2	49.1	40.9



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