



MSJ Series

MSJ-500 Datasheet

2V VRLA-AGM

Specifications

Voltage (Vdc)	2
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	506.40
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	524.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	493.60
Max Charge Current (A)	150.00
Max Discharge Current (A)	3000 (5sec)
Short Circuit Current (A)	9953
Internal Resistance	Approx. 0.28 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.)	36.50 / 80.45
Depth (D) (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 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 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





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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	830	590	370	215	179	154	97.4	82.5	64.6	53.4	26.7	22.3
1.75V	702	519	345	208	174	151	95.2	80.7	63.3	52.5	26.2	21.9
1.80V	600	459	319	199	167	145	92.1	78.5	61.7	51.1	25.6	21.3

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	1508	1082	677	411	343	295	194	166	127	100	49.8	41.5
1.75V	1323	986	640	400	334	289	191	164	125	97.7	48.9	40.7
1.80V	1187	890	597	384	323	280	186	160	121	94.9	47.5	39.6

