



MSJ Series

MSJ-400 Datasheet

2V VRLA-AGM

Specifications

Voltage (Vdc)	2
Nominal Capacity (1.80 VPC @25°C)	400 Ah @10hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	405.60
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	420.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	394.40
Max Charge Current (A)	120.00
Max Discharge Current (A)	2400
Short Circuit Current (A)	6065
Internal Resistance (mΩ)	Approx. 0.30
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.)	28.60 / 63.03
Depth (D) (mm / in)	197.0±2.0 / 7.76±0.08
Width (W) (mm / in)	170.0±2.0 / 6.69±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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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	631	472	296	172	143	123	77.9	66.0	51.6	42.7	21.4	17.8
1.75V	533	415	276	167	139	120	76.1	64.6	50.7	42.0	21.0	17.5
1.80V	456	368	255	159	134	116	73.7	62.8	49.3	40.9	20.5	17.0

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	1146	866	542	329	274	236	155	133	102	79.6	39.8	33.2
1.75V	1006	789	512	320	267	231	153	131	100	78.2	39.1	32.6
1.80V	902	712	478	307	258	224	149	128	97	75.9	38.0	31.6

