



# MSJ Series

## MSJ-300 Datasheet

2V VRLA-AGM

### Specifications

Voltage (Vdc)	2
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	304.00
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	314.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	296.00
Max Charge Current (A)	90.00
Max Discharge Current (A)	1800 (5sec)
Short Circuit Current (A)	5075
Internal Resistance	Approx. 0.33 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.)	21.80 / 48.05
Depth (D) (mm / in)	170.0±2.0 / 6.69±0.08
Width (W) (mm / in)	150.0±1.5 / 5.91±0.06
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	498	354	222	129	107	92.6	58.4	49.5	38.7	32.1	16.0	13.4
1.75V	421	311	207	125	105	90.3	57.1	48.4	38.0	31.5	15.7	13.1
1.80V	360	276	191	120	100	87.1	55.3	47.1	37.0	30.7	15.3	12.8

### 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	905	649	406	247	206	177	116	99.7	76.3	59.7	29.9	24.9
1.75V	794	591	384	240	201	173	114	98.1	74.8	58.6	29.3	24.4
1.80V	712	534	358	231	194	168	112	95.7	72.5	57.0	28.5	23.7

Detail A Drawing(3:1)

