



MSJ series
MSJ 1000

2V 1020Ah



Valve Regulated Lead Acid Battery

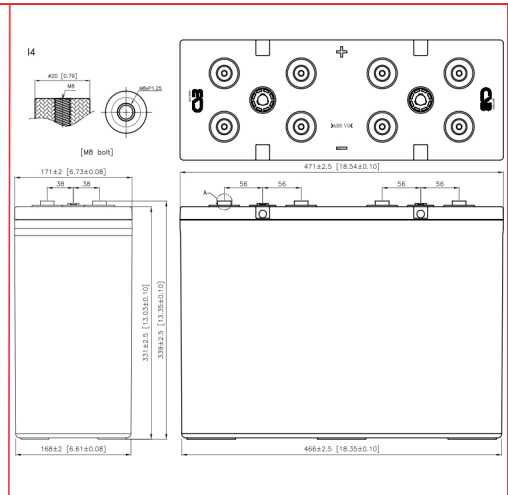
Maintenance-Free Sealed Lead Acid Battery.
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Standby Power Applications

| | |
|--|--|
| <p>【 Design Life 】 Up to 20 Years in Standby Service at 25°C Eurobat (20°C) : 12 years and longer, Long Life</p> <p>【 Operating Temperature Range 】 Nominal Operating Temperature : 25°C (77°F) Discharge : -20°C ~ 50°C (-4°F~122°F) Charge: 0°C ~ 40°C (32°F~104°F) Storage: -20°C ~ 40°C (-4°F~104°F)</p> | <p>【 Float Charging Voltage 】 2.21 ~ 2.25 VDC/Unit at 25°C (77°F)</p> <p>【 Equalization Charging Voltage 】 2.35 VDC/Unit at 25°C (77°F)</p> <p>【 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).</p> |
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Specification

| | | |
|---------------------------|---|-----------------------------------|
| Nominal Voltage | 2V (single cell per unit) | |
| Nominal Capacity | 1020 Ah @10hr-rate to 1.80V per cell @25°C (77°F) | |
| Weight | Approx. 72.80 Kg (160.45 lbs) | |
| Maximum Discharge Current | 6000 A (5sec) | |
| Internal Resistance | Approx. 0.28 mΩ | |
| Short Circuit Current | -- | |
| Maximum Charge Current | 300 A | |
| Terminal type | I4 thread copper alloy terminal to accept M8 bolt | |
| Terminal breaking Torque | 414 Kgf·cm / 359 Lbf·in / 40.57 N·m | |
| Container Material | Flame Retardant ABS (UL 94-V0) | |
| Dimensions | Depth (D) | 471.0±2.5 mm 18.54±0.10 inch |
| | Width (W) | 171.0±2.0 mm 6.73±0.08 inch |
| | Container height (h) | 331.0±2.5 mm 13.03±0.10 inch |
| | Overall Height (H) | 339.0±2.5 mm 13.15±0.10 inch |



Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time | 15MIN | 30MIN | 60MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR | 24HR |
|----------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|------|------|
| 1.60V | 1853 | 1241 | 760 | 435 | 312 | 241 | 197 | 167 | 130 | 108 | 53.9 | 44.9 |
| 1.67V | 1660 | 1179 | 740 | 430 | 309 | 239 | 195 | 165 | 129 | 107 | 53.4 | 44.5 |
| 1.70V | 1561 | 1139 | 726 | 426 | 307 | 237 | 194 | 164 | 128 | 106 | 53.2 | 44.3 |
| 1.75V | 1403 | 1038 | 691 | 417 | 301 | 233 | 190 | 161 | 127 | 105 | 52.5 | 43.7 |
| 1.80V | 1201 | 919 | 637 | 398 | 290 | 225 | 184 | 157 | 123 | 102 | 51.1 | 42.6 |
| 1.83V | 1061 | 843 | 596 | 381 | 279 | 217 | 178 | 152 | 120 | 99.4 | 49.7 | 41.4 |

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

| F.V/Time | 15MIN | 30MIN | 60MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR | 24HR |
|----------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|------|------|
| 1.60V | 3245 | 2251 | 1381 | 831 | 595 | 470 | 390 | 334 | 256 | 201 | 100 | 83.6 |
| 1.67V | 3016 | 2165 | 1355 | 823 | 590 | 467 | 388 | 332 | 254 | 199 | 100 | 82.9 |
| 1.70V | 2897 | 2109 | 1335 | 817 | 587 | 464 | 386 | 331 | 253 | 198 | 99.1 | 82.6 |
| 1.75V | 2647 | 1971 | 1280 | 800 | 578 | 458 | 381 | 327 | 249 | 195 | 97.7 | 81.4 |
| 1.80V | 2374 | 1780 | 1194 | 769 | 559 | 446 | 372 | 319 | 242 | 190 | 94.9 | 79.1 |
| 1.83V | 2139 | 1660 | 1126 | 738 | 541 | 434 | 362 | 311 | 234 | 184 | 92.0 | 76.7 |

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