



FM3000G (2V3000Ah)

LONGWAY® FM3000G is a long service life battery up to 15 years expected life under normal float charge. As with all LONGWAY® batteries, all are rechargeable highly efficient, leak proof and maintenance free.



ISO 9001:2008 Standard



ISO 14001:2004 Standard



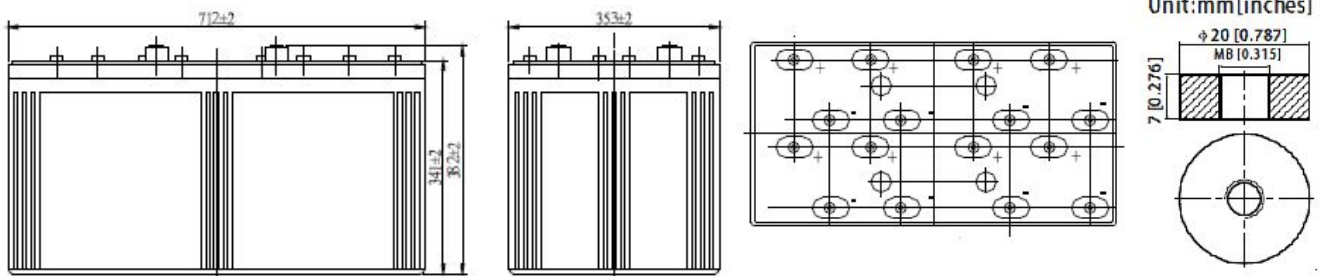
MH46789



Specifications:

| | |
|-------------------------------------|---|
| Cells per Unit | 1 |
| Normal Voltage | 2V |
| Capacity | 3000Ah@10Hr-rate to 1.80V per cell@25°C |
| Weight | Approx.(175.0±3%kg)(385.81lbs) |
| Maximum Discharge Current | 15000A(5sec) |
| Internal Resistance | Approx. 0.08mΩ full charged @25°C |
| Operating Temperature Range | Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C |
| Nominal Operating Temperature Range | 25°C±3°C |
| Float Charging Voltage | 2.25~2.30VDC/unit Average @25°C |
| Maximum Charging Current | 600A |
| Equalization and Cycle Service | 2.40V~2.45VDC/unit Average @ 25°C |
| Self Discharge | LONGWAY Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using. |
| Terminal | Thread insert & Bolt (F13) |
| Container Material | ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request |

Dimensions: L712*W353*H341 (TH382)mm



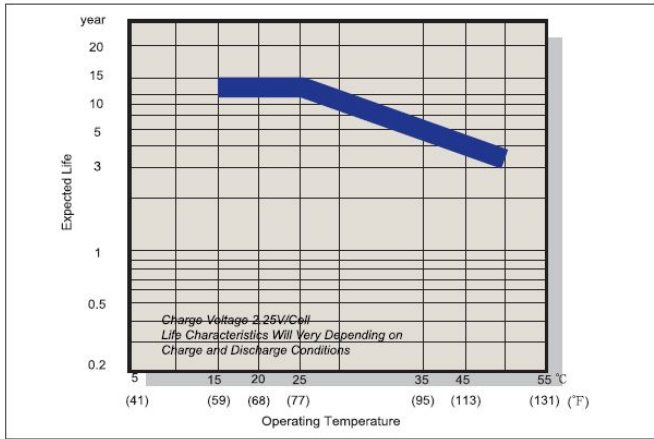
stant Current Discharge Characteristics (A, 25 °C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 1.60V | 4950 | 4050 | 2700 | 1950 | 1096.2 | 776.5 | 554.2 | 365.4 | 304.5 | 159.9 |
| 1.70V | 4703 | 3888 | 2592 | 1872 | 1080.0 | 765.0 | 546.0 | 362.2 | 301.8 | 158.4 |
| 1.80V | 4420 | 3694 | 2462 | 1778 | 1058.4 | 749.7 | 535.1 | 360.0 | 300.0 | 157.5 |

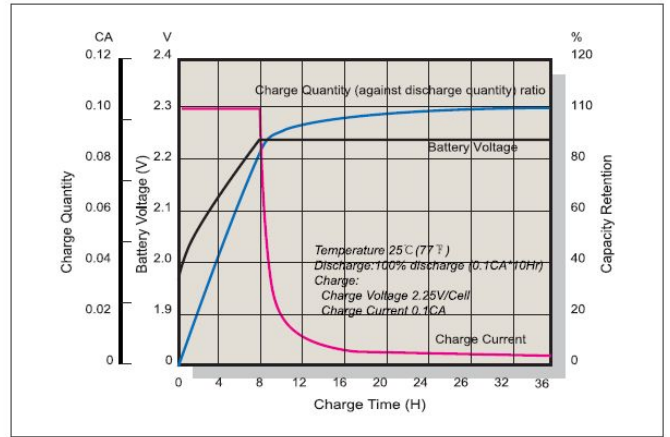
Constant Power Discharge Characteristics (Watt, 25 °C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|-------|-----|-----|
| 1.60V | 8910 | 7412 | 5049 | 3705 | 2116 | 1522 | 1092 | 730.8 | 606 | 320 |
| 1.70V | 8465 | 7115 | 4847 | 3557 | 2084 | 1499 | 1076 | 724.3 | 601 | 317 |
| 1.80V | 7957 | 6759 | 4605 | 3379 | 2043 | 1469 | 1054 | 720.0 | 601 | 315 |

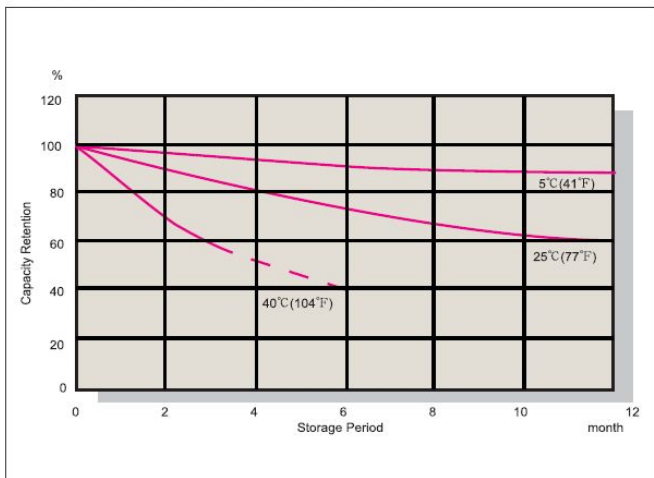
Expected Life V.S Operating Temperature



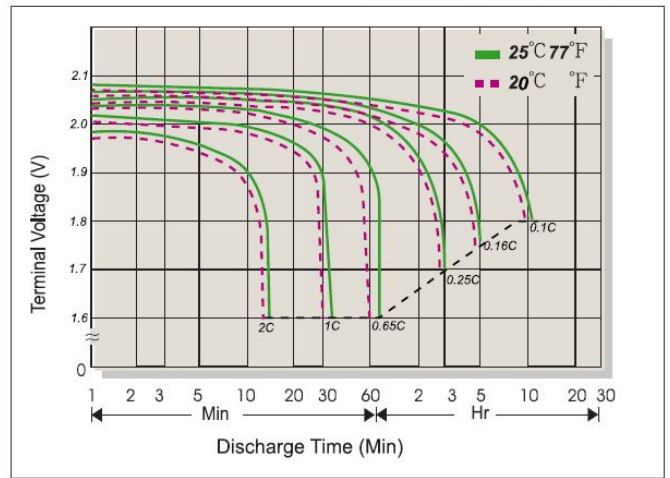
Typical Constant Voltage Charge Characteristics



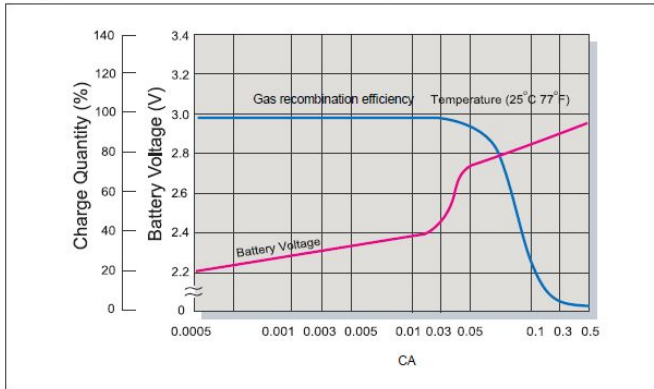
Capacity Retention Characteristics



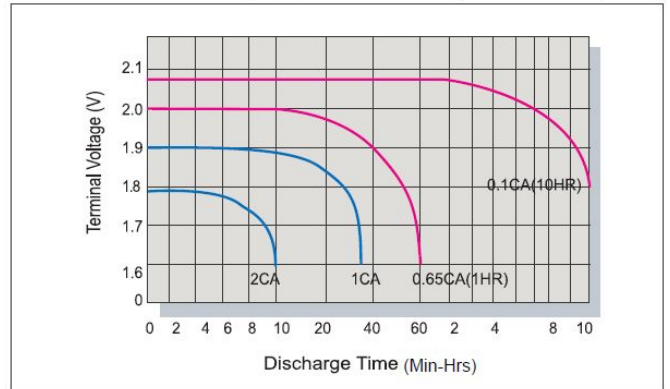
Discharge Characteristics



Oxygen Recombination Efficiency Chart



Terminal Voltage (V) and Discharge Time 25°C (77°F)



Charging Procedures

| Application | Charge Voltage(V/cell) | | | Max. Charge Current |
|-------------|------------------------|-----------|-----------------|---------------------|
| | Temperature | Set Point | Allowable Range | |
| Cycle Use | 25°C(77°F) | 2.45 | 2.40~2.50 | 0.2C |
| Standby | 25°C(77°F) | 2.25 | 2.25~2.30 | |

Discharge Current VS. Discharge Voltage

| Final Discharge Voltage V/cell | 1.80 | 1.75 | 1.70 | 1.60 |
|--------------------------------|----------|----------|----------|----------|
| Discharge Current (A) | 0.1C≥(A) | 0.1C<(A) | 0.2C<(A) | (A)>0.4C |

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