



6FM140G (12V140Ah)

LONGWAY® Standard battery is design for a general purpose by KaiYing Power. 6FM140G is a general purpose battery up to 8 years in star service or more than 260 cycles at 100% discharge in cycle service. As with all **LONGWAY®** batteries, all are rechargeable highly efficient, leak proof and maintenance free.



ISO 9001:2008 Standard



ISO 14001:2004 Standard



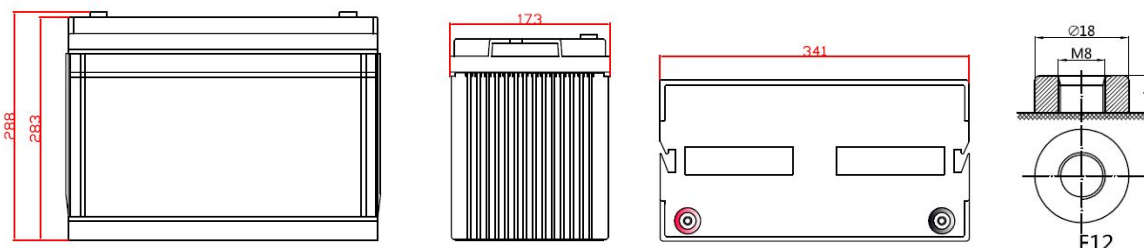
MH46789



Specifications:

| | |
|-------------------------------------|---|
| Cells per Unit | 6 |
| Normal Voltage | 12V |
| Capacity | 140Ah@10Hr-rate to 1.80V per cell@25°C |
| Weight | Approx.(41.5±3% kg) (91.49lbs) |
| Maximum Discharge Current | 1400A(5sec) |
| Internal Resistance | Approx. 4mΩ 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 | 13.7~13.9VDC/unit Average @25°C |
| Maximum Charging Current | 35.0A |
| Equalization and Cycle Service | 14.4V~15.0VDC/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 | Terminal F12 |
| Container Material | ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request |

Dimensions: L341*W173*H283(TH288)



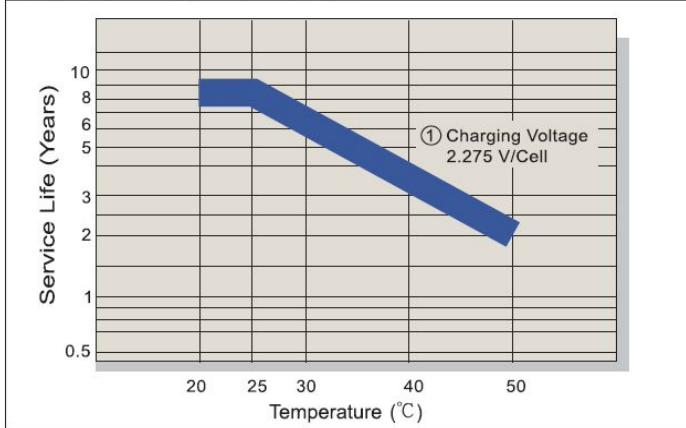
Constant Current Discharge Characteristics (A, 25 °C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|
| 9.60 | 417.2 | 344.4 | 270.5 | 164.5 | 91.0 | 54.7 | 41.2 | 26.4 | 17.05 | 14.21 | 7.46 |
| 9.90 | 404.7 | 334.1 | 265.1 | 161.2 | 89.2 | 54.4 | 41.0 | 26.3 | 16.97 | 14.14 | 7.42 |
| 10.2 | 396.3 | 327.2 | 259.7 | 157.9 | 87.4 | 53.9 | 40.6 | 26.0 | 16.90 | 14.08 | 7.39 |
| 10.5 | 373.4 | 316.8 | 251.5 | 153.0 | 84.6 | 53.4 | 40.2 | 25.8 | 16.85 | 14.04 | 7.37 |
| 10.8 | 342.1 | 307.5 | 246.7 | 150.0 | 83.0 | 52.8 | 39.8 | 25.5 | 16.80 | 14.00 | 7.35 |

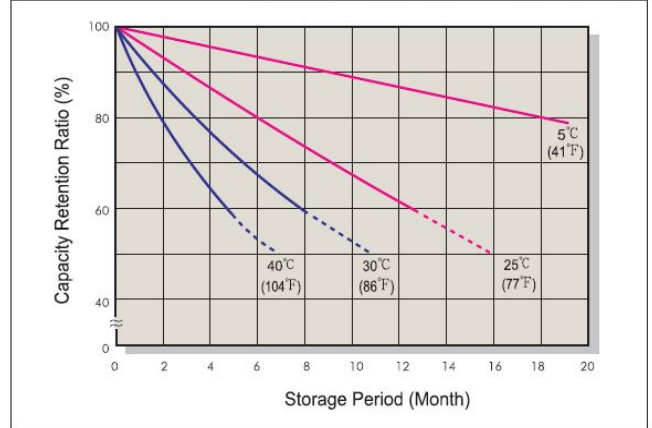
Constant Power Discharge Characteristics (Watt, 25 °C)

| F.V/TIME | 5min | 10min | 15min | 30min | 60min | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|
| 9.60 | 4506 | 3761 | 3002 | 1846 | 1037 | 634 | 485 | 312 | 204.6 | 169.7 | 89.5 |
| 9.90 | 4371 | 3648 | 2910 | 1809 | 1017 | 630 | 482 | 311 | 203.6 | 168.8 | 89.1 |
| 10.2 | 4280 | 3573 | 2851 | 1772 | 996 | 624 | 477 | 308 | 202.8 | 168.2 | 88.7 |
| 10.5 | 4033 | 3460 | 2762 | 1716 | 965 | 618 | 473 | 305 | 202.2 | 167.7 | 88.5 |
| 10.8 | 3695 | 3358 | 2709 | 1683 | 946 | 612 | 468 | 302 | 201.6 | 167.2 | 88.2 |

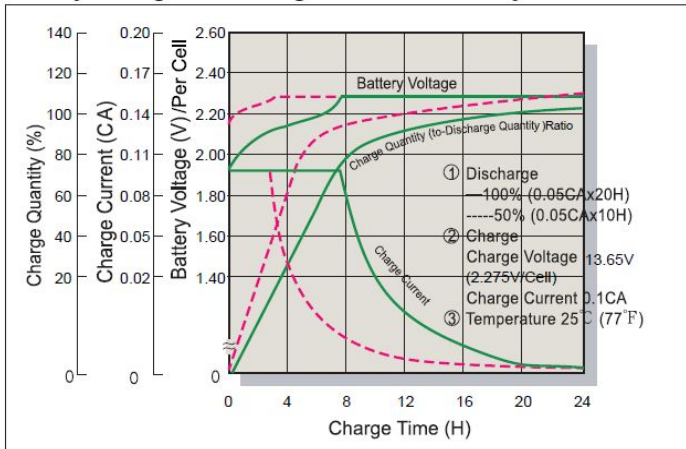
Trickle (or Float) Service Life



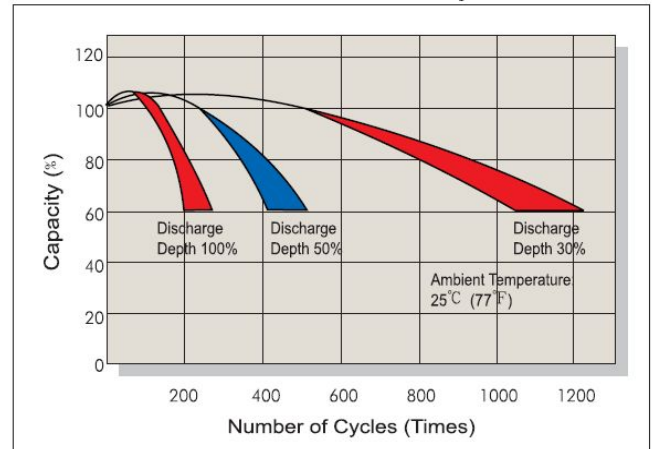
Capacity Retention Characteristic



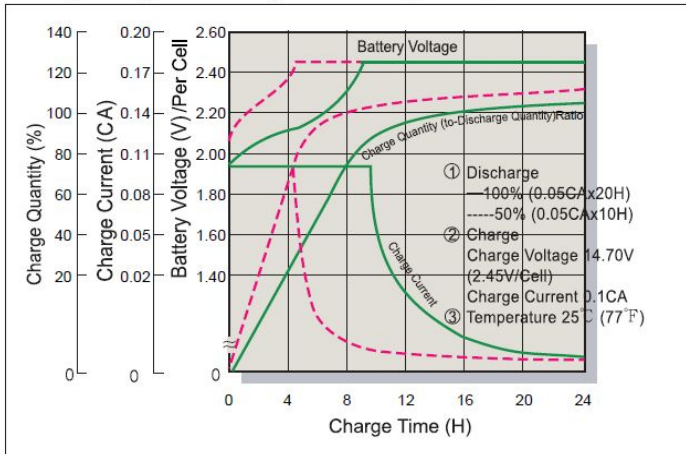
Battery Voltage and Charge Time for Standby Use



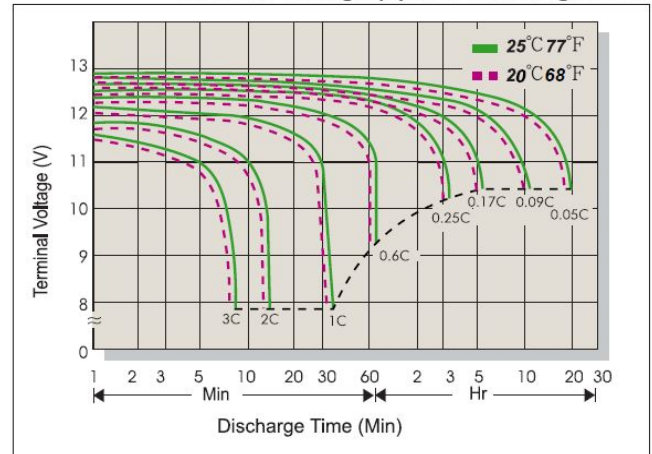
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



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 | 0.25C |
| Standby | 25°C(77°F) | 2.275 | 2.25~2.30 | |

Discharge Current VS. Discharge Voltage

| | | | | |
|--------------------------------|----------|----------|----------|----------|
| Final Discharge Voltage V/cell | 1.75 | 1.70 | 1.65 | 1.60 |
| Discharge Current (A) | 0.2C>(A) | 0.2C<(A) | 0.5C<(A) | (A)>1.0C |

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