

GEL BATTERY

KG12-65 12V65AH



FEATURES

- Low self-discharge and long shelf life
- Non-Spillable construction
- Safety valve installation for explosion proof
- Exceptional deep discharge recovery performance
- 99.7% pure lead calcium grids and A recognized Component of U.L

APPLICATION

- Photovoltaic system
- Telecommunications
- Emergency Power System
- Power plant and power transformer system
- Control Equipment



SPECIFICATIONS

| | |
|-----------------------------|---|
| Nominal Voltage | 12V |
| Nominal Capacity | 65Ah@10 hour rate F.V.(1.80V/cell) |
| Approx. Weight | 21.00Kg (46.30lbs.) |
| Terminals | B5 (Fitting M6 bolt & nut), I2 are optional |
| Internal Resistance | ≤7.0mΩ (Fully Charged) |
| Max. Discharge Current | 650A (5 sec) |
| Max. Charge Current | 16.25A |
| Operating Temperature Range | Charge: -10°C~50°C (14°F~122°F) Discharge: -20°C~50°C (-4°F~122°F) Storage: -20°C~50°C (-4°F~122°F) |
| Self Discharge | 3% of capacity declined per month at (25°C) |

ISO 9001

- IEC 60896.2
- JIS C 8704.2
- GB/T 19638.2

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

350±1.5mm(13.78±0.06inch)

Width

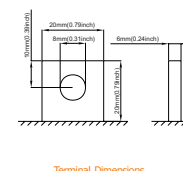
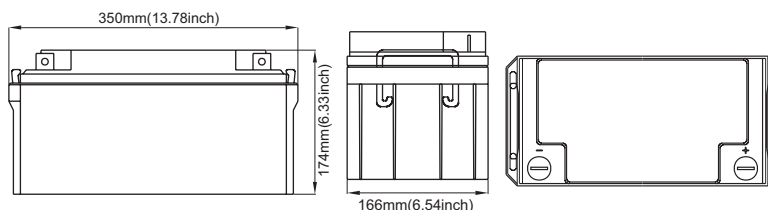
166±1.5mm(6.54±0.06inch)

Container Height

174±1.5mm(6.85±0.06inch)

Total Height

174±2.0mm(6.85±0.06inch)



Constant power discharge characteristics at 25°C/77°F Unit:W

| F. V/Time | 10MIN | 15MIN | 30MIN | 1HR | 3HR | 5HR | 10HR | 20HR |
|-----------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 259 | 202 | 129 | 84.5 | 34.3 | 23.9 | 13.8 | 6.87 |
| 1.65V | 255 | 200 | 126 | 81.7 | 34.1 | 23.8 | 13.6 | 6.85 |
| 1.70V | 249 | 196 | 123 | 79.6 | 33.8 | 23.7 | 13.5 | 6.83 |
| 1.75V | 233 | 185 | 120 | 78.8 | 33.5 | 23.5 | 13.2 | 6.80 |
| 1.80V | 216 | 174 | 116 | 77.5 | 33.1 | 23.1 | 13.0 | 6.56 |

| Charge Voltage | |
|----------------|----------------------|
| Cycle use | 14.4-14.7V (±4mV) |
| Max. Current | 16.25A |

Constant current discharge characteristics at 25°C/77°F Unit:A

| F. V/Time | 10MIN | 15MIN | 30MIN | 1HR | 3HR | 5HR | 10HR | 20HR |
|-----------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 156 | 114 | 68.3 | 42.9 | 17.8 | 12.4 | 6.89 | 3.44 |
| 1.65V | 142 | 111 | 66.3 | 42.8 | 17.7 | 12.3 | 6.79 | 3.43 |
| 1.70V | 137 | 107 | 65.0 | 42.7 | 17.6 | 12.3 | 6.74 | 3.42 |
| 1.75V | 127 | 101 | 63.7 | 42.3 | 17.5 | 12.2 | 6.62 | 3.40 |
| 1.80V | 118 | 96 | 61.8 | 41.7 | 17.2 | 11.8 | 6.51 | 3.28 |

| Float Use |
|----------------------|
| 13.5-13.8V (±3mV) |

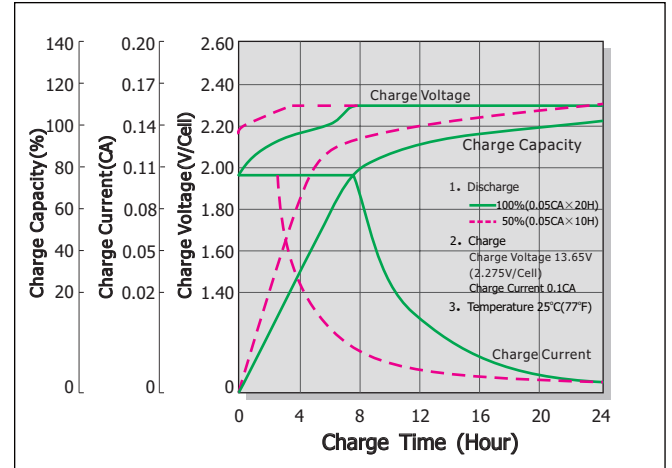
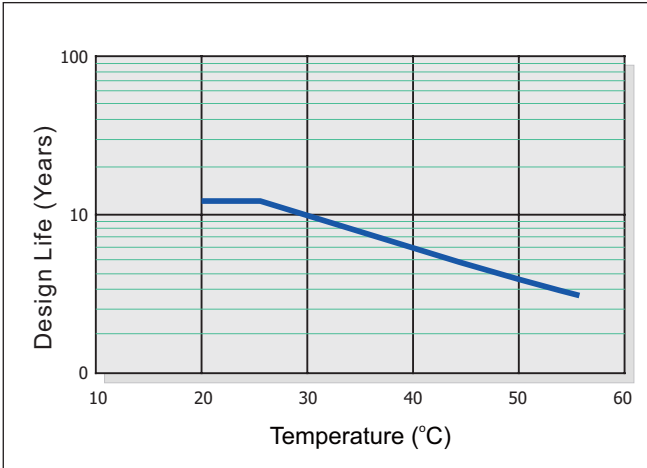
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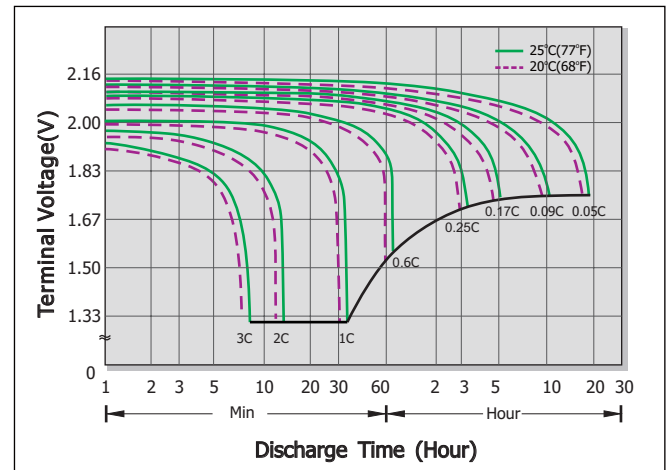
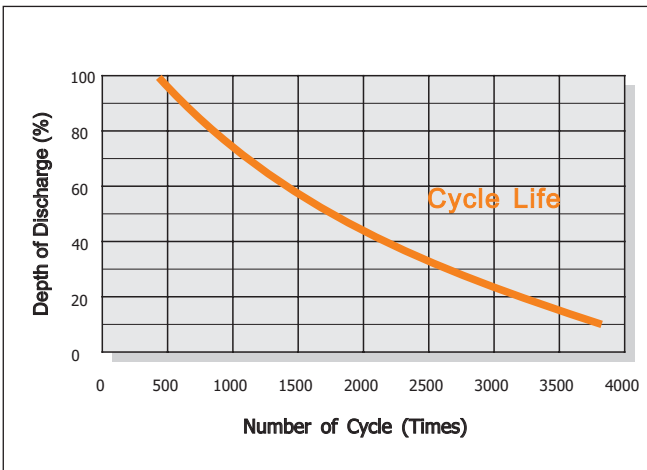
Trickle(or Float) Service Life

Charge Characteristic



Depth of Discharge vs. Cycles

Discharge Characteristic



Capacity Factors With Different Temperature

| Battery Type | | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|--------|-------|-------|-----|-----|------|------|------|------|------|------|
| GEL Battery | 6V&12V | 55% | 75% | 85% | 88% | 90% | 98% | 100% | 102% | 104% | 105% |
| | 2V | 65% | 80% | 88% | 90% | 92% | 99% | 100% | 103% | 105% | 106% |
| AGM Battery | 6V&12V | 46% | 66% | 76% | 83% | 90% | 98% | 100% | 103% | 107% | 109% |
| | 2V | 55% | 70% | 80% | 85% | 92% | 99% | 100% | 104% | 108% | 110% |

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