

YALÇIN GOLD BATTERY

GB12065.0(12V65Ah)

Specifications

| | | |
|--|--------------|--|
| Nominal Voltage | | 12 V |
| Capacity (25 C) | 10HR(10.8V) | 65 Ah |
| | 5HR(10.5V) | 57Ah |
| | 1HR(9.60V) | 40.3Ah |
| Dimension | Length | 350 ± 2mm (13.78inch) |
| | Width | 167 ± 2mm (6.57inch) |
| | Height | 179 ± 2mm (7.05inch) |
| | Total Height | T5: 186 ± 2mm (7.32inch) T9: 179 ± 2mm (7.05inch) |
| Approx. Weight | | 20.8kg (45.9lbs) ± 4% |
| Terminal type | | T5/T9 |
| Internal resistance (Fully charged, 25 C) | | Approx. 6m Ω |
| Capacity affected by temperature (10HR) | 40 C | 102% |
| | 25 C | 100% |
| | 0 C | 85% |
| | -15 C | 65% |
| Self-discharge (25 C) | 3 month | Remaining Capacity: 91% |
| | 6 month | Remaining Capacity: 82% |
| | 12 month | Remaining Capacity: 65% |
| Nominal operating temperature | | 25 C ± 3 C (77 F ± 5 F) |
| Operating temperature range | Discharge | -15 ▲ 50 C (5 ▲ 122 F) |
| | Charge | -10 ▲ 50 C (14 ▲ 122 F) |
| | Storage | -20 ▲ 50 C (-4 ▲ 122 F) |
| Float charging voltage(25 C) | | 13.50 to 13.80V Temperature compensation: -18mV/ C |
| Cyclic charging voltage(25 C) | | 14.50 to 14.90V Temperature compensation: -30mV/ C |
| Maximum charging current | | 19.5A |
| Terminal material | | Copper |
| Maximum discharge current | | 650A(5 sec.) |
| Designed floating life(20 C) | | 12 years |

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Constant Current Discharge Characteristics (A, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V | 137 | 107 | 65.0 | 40.3 | 23.8 | 16.6 | 13.6 | 11.6 | 7.96 | 6.61 | 3.47 |
| 9.90V | 132 | 105 | 63.7 | 39.7 | 23.6 | 16.5 | 13.5 | 11.5 | 7.91 | 6.58 | 3.47 |
| 10.2V | 127 | 101 | 61.8 | 38.7 | 23.4 | 16.4 | 13.4 | 11.5 | 7.85 | 6.56 | 3.46 |
| 10.5V | 121 | 97.4 | 60.3 | 37.9 | 23.0 | 16.3 | 13.3 | 11.4 | 7.80 | 6.50 | 3.44 |
| 10.8V | 115 | 92.2 | 58.0 | 36.8 | 22.5 | 15.8 | 12.9 | 11.0 | 7.57 | 6.48 | 3.41 |

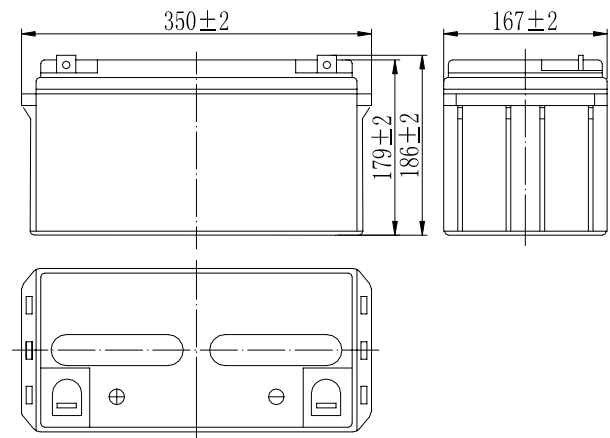
Constant Power Discharge Characteristics (Watt, 25°C)

| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|------|
| 9.60V | 1474 | 1178 | 729 | 459 | 275 | 195 | 160 | 137 | 94.5 | 79.1 | 41.7 |
| 9.90V | 1430 | 1149 | 715 | 453 | 273 | 194 | 159 | 136 | 94.0 | 78.8 | 41.6 |
| 10.2V | 1371 | 1107 | 693 | 441 | 271 | 192 | 158 | 135 | 93.3 | 78.2 | 41.5 |
| 10.5V | 1312 | 1069 | 676 | 432 | 267 | 191 | 157 | 134 | 92.7 | 77.6 | 41.2 |
| 10.8V | 1238 | 1013 | 651 | 419 | 260 | 185 | 152 | 130 | 89.9 | 77.1 | 41.0 |

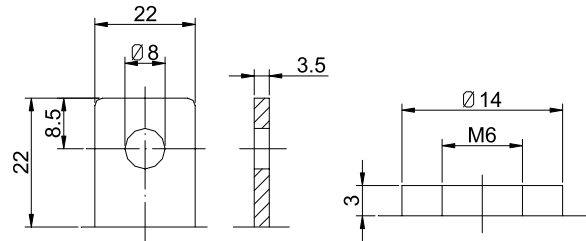
Note: The above characteristics data can be obtained within three charge/discharge cycles.

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Dimensions



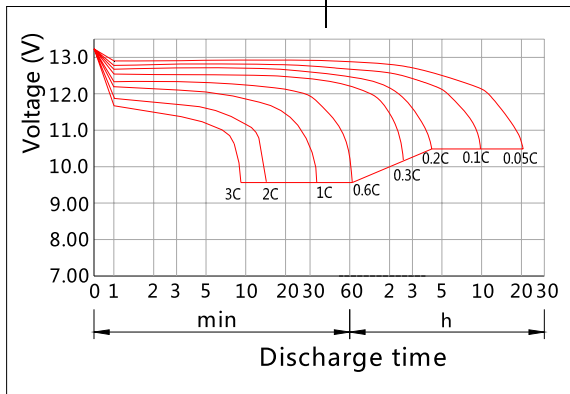
Terminal



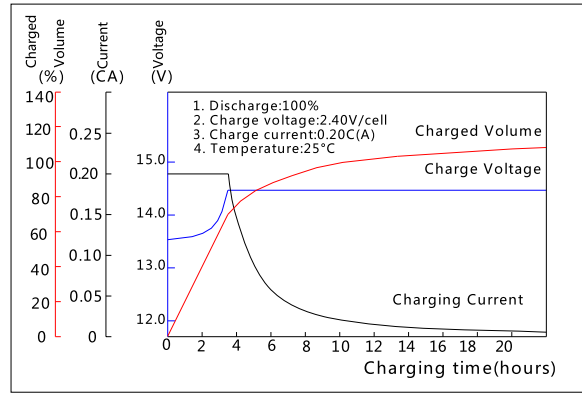
Terminal T5

Terminal T9

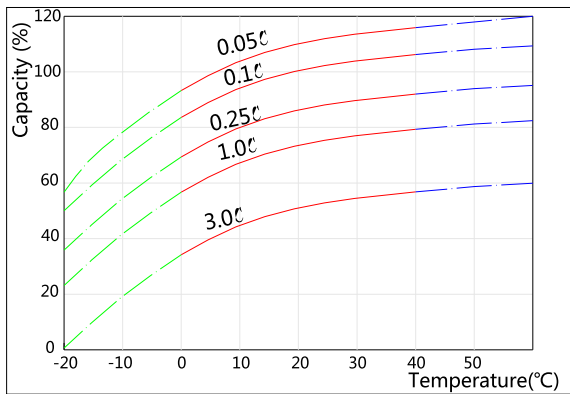
Discharge Characteristics(25°C)



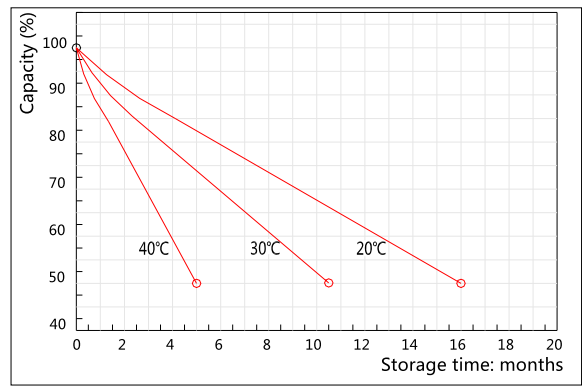
Charging Characteristics(25°C)



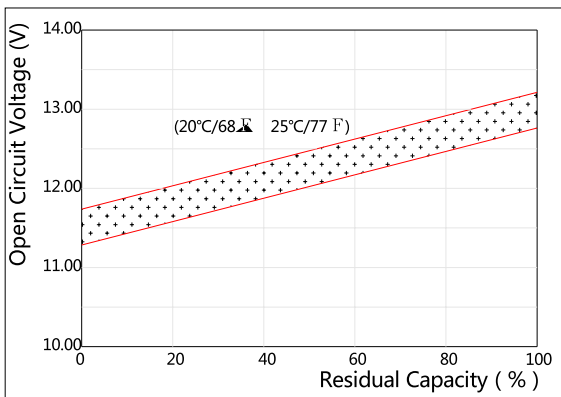
Effect of Temperature on Capacity



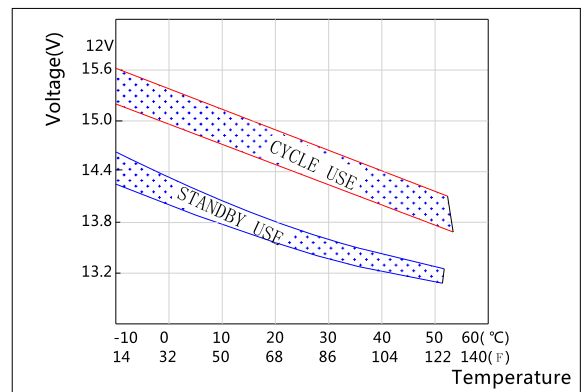
Self-discharge Characteristics



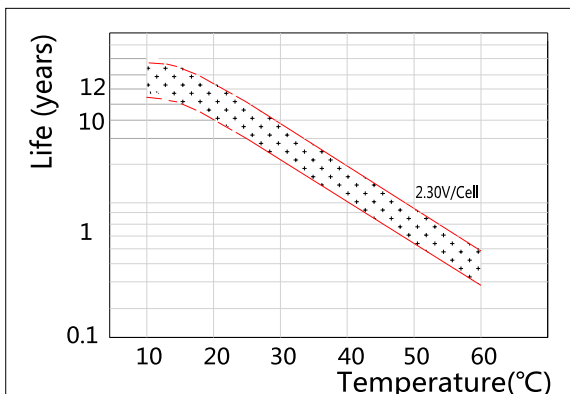
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

