

## GTGD12-65 12V-65AH

### GD SERIES-Gel&Deep Cycle Battery



### Applications

- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System(EPS)
- ◆ Emergency backup Power Supply
- ◆ Alarm and security system
- ◆ Electronic Apparatus and equipment
- ◆ Communication Power Supply
- ◆ Solar Power System

### Specification

|                                  |                                                                                                                                                                                |                               |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Nominal Voltage                  | 12V                                                                                                                                                                            |                               |
| Nominal Capacity(10HR)           | 65AH                                                                                                                                                                           |                               |
| Dimension                        | Length                                                                                                                                                                         | 347 ± 3mm                     |
|                                  | Width                                                                                                                                                                          | 168 ± 2mm                     |
|                                  | Container Height                                                                                                                                                               | 168 ± 2mm                     |
|                                  | Total Height (with Terminal)                                                                                                                                                   | 176 ± 2mm                     |
| Approx Weight                    | Approx 19.1 Kg                                                                                                                                                                 |                               |
| Terminal                         | T6                                                                                                                                                                             |                               |
| Container Material               | ABS                                                                                                                                                                            |                               |
| Rated Capacity                   | 68.4 AH/3.42A                                                                                                                                                                  | (20hr , 1.80V/cell,25°C/77°F) |
|                                  | 65 AH/6.50A                                                                                                                                                                    | (10hr, 1.75V/cell,25°C/77°F)  |
|                                  | 55.5 AH/11.1A                                                                                                                                                                  | (5hr, 1.75V/cell,25°C/77°F)   |
|                                  | 49.2AH/16.4A                                                                                                                                                                   | (3hr, 1.75V/cell,25°C/77°F)   |
|                                  | 38.8 AH/38.8A                                                                                                                                                                  | (1hr, 1.60V/cell,25°C/77°F)   |
| Max. Discharge Current           | 780A (5s)                                                                                                                                                                      |                               |
| Internal Resistance              | Approx 7.4 mΩ                                                                                                                                                                  |                               |
| Operating Temp.Range             | Discharge : -15 ~50°C (5 ~122°F)                                                                                                                                               |                               |
|                                  | Charge : 0 ~ 40°C (32 ~104°F)                                                                                                                                                  |                               |
|                                  | Storage : -15 ~ 40°C (5 ~104°F)                                                                                                                                                |                               |
| Nominal Operating Temp. Range    | 25 ± 3°C (77 ± 5°F )                                                                                                                                                           |                               |
| Cycle Use                        | Initial Charging Current less than 19.5A. Voltage 14.6V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C                                                                          |                               |
| Standby Use                      | No limit on Initial Charging Current Voltage 13.6V~13.7V at 25°C(77°F)Temp. Coefficient -20mV/°C                                                                               |                               |
| Capacity affected by Temperature | 40°C (104 °F)                                                                                                                                                                  | 103%                          |
|                                  | 25°C ( 77 °F )                                                                                                                                                                 | 100%                          |
|                                  | 0 °C ( 32 °F )                                                                                                                                                                 | 86%                           |
| Self Discharge                   | GLOBAL POWER Batteries may be stored for up to 6 months at 25°C(77 °F) and battery recharged should be before use. For higher temperatures the time interval will be shorter . |                               |

### Constant Current Discharge (Amperes) at 25°C (77°F)

| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h  | 10h | 20h  |
|----------|-------|-------|-------|-------|-------|------|------|------|------|-----|-----|------|
| 1.80V    | 151.2 | 96.4  | 81.9  | 52.3  | 38.4  | 35.3 | 22.4 | 15.8 | 10.7 | 7.1 | 6.3 | 3.42 |
| 1.75V    | 157.2 | 100.2 | 85.2  | 54.4  | 40.0  | 36.7 | 23.3 | 16.4 | 11.1 | 7.3 | 6.5 | 3.64 |
| 1.70V    | 160.3 | 102.2 | 86.8  | 55.4  | 40.7  | 37.4 | 23.8 | 16.7 | 11.4 | 7.5 | 6.6 | 3.71 |
| 1.65V    | 163.3 | 104.1 | 88.5  | 56.5  | 41.5  | 38.1 | 24.2 | 17.0 | 11.6 | 7.6 | 6.8 | 3.78 |
| 1.60V    | 166.3 | 106.0 | 90.1  | 57.5  | 42.3  | 38.8 | 24.7 | 17.3 | 11.8 | 7.8 | 6.9 | 3.85 |

### Constant Power Discharge (Watts) at 25°C (77°F)

| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-----|
| 1.80V    | 291.1 | 185.6 | 157.7 | 100.7 | 74.0  | 67.9 | 43.2 | 30.3 | 20.6 | 13.6 | 12.1 | 6.7 |
| 1.75V    | 302.7 | 193.0 | 164.0 | 104.7 | 76.9  | 70.6 | 44.9 | 31.5 | 21.4 | 14.1 | 12.6 | 7.0 |
| 1.70V    | 308.5 | 196.7 | 167.1 | 106.7 | 78.4  | 72.0 | 45.8 | 32.1 | 21.9 | 14.4 | 12.9 | 7.1 |
| 1.65V    | 314.3 | 200.4 | 170.3 | 108.7 | 79.9  | 73.3 | 46.6 | 32.7 | 22.3 | 14.7 | 13.1 | 7.3 |
| 1.60V    | 320.2 | 204.1 | 173.4 | 110.7 | 81.4  | 74.7 | 47.5 | 33.4 | 22.7 | 14.9 | 13.3 | 7.4 |

**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

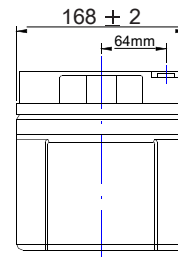
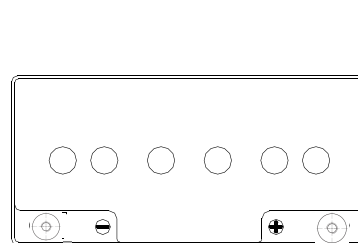
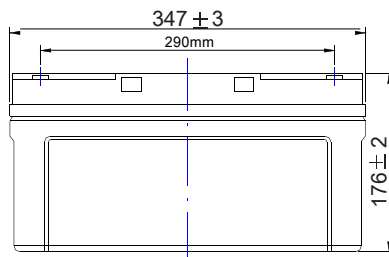
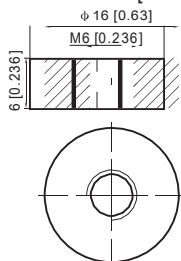
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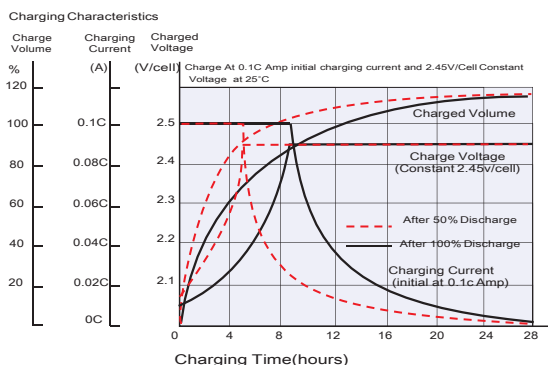
#### Dimensions

##### T6 Terminal

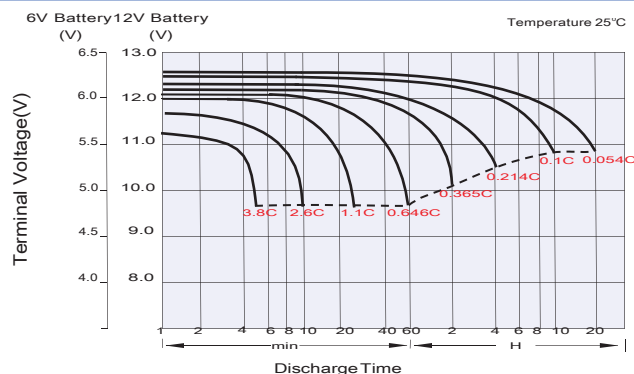
Unit: mm [inches]



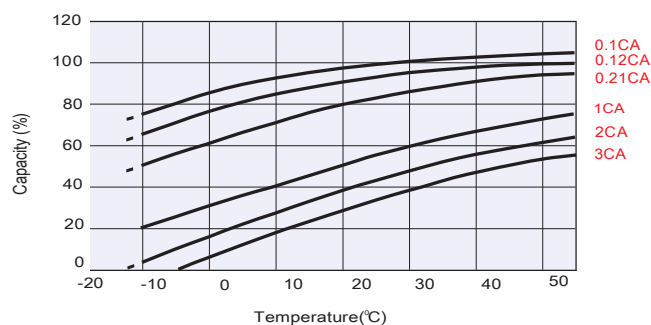
#### Charging Characteristics (cycle use)



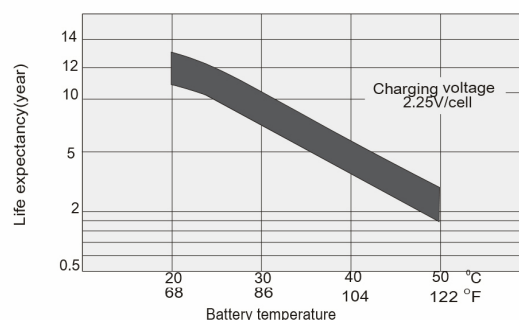
#### Discharge Characteristics



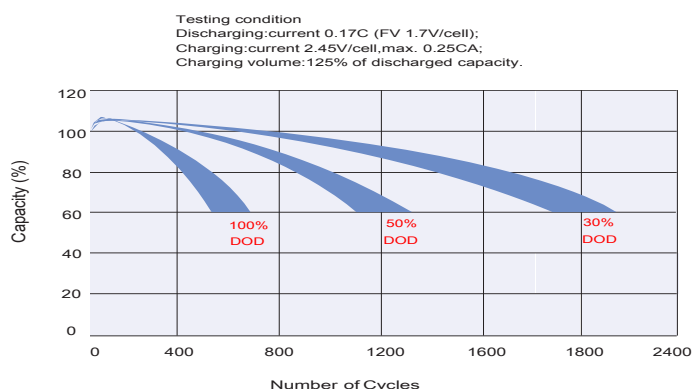
#### Temperature Effects in Relation to Battery Capacity



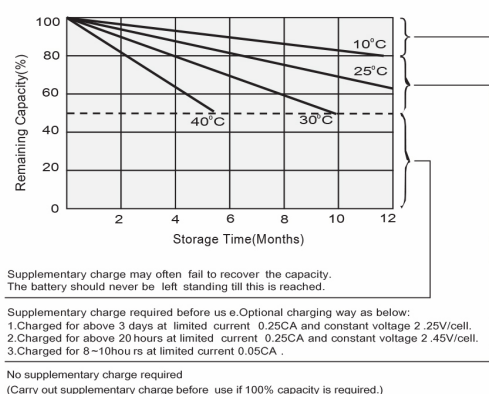
#### Effect of Temperature on Long Term Float Life



#### Cycle Life in Relation to Depth of Discharge



#### Self Discharge Characteristics



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