



# FG27507

12VOLT 75Ah

## Specifications

**Nominal Voltage(V)** 12V

### Nominal Capacity

|              |                   |        |
|--------------|-------------------|--------|
| 20 hour rate | (3,75A to 10.50V) | 75Ah   |
| 10 hour rate | (7A to 10.80V)    | 70Ah   |
| 5 hour rate  | (12,3A to 10.50V) | 61,5Ah |
| 1 hour rate  | (44,7A to 9.60V)  | 44,7Ah |

**Weight** Approx. 21,7kg

**Internal Resistance (at 1KHz)** Approx. 6,5 mΩ

### Maximum Discharge Current for

5 seconds: 700A

### Charging Methods at 25° C

|                           |                |
|---------------------------|----------------|
| Cycle use:                |                |
| Charging Voltage          | 14.4 to 14,9V  |
| Coefficient               | -5.0mv/°C/cell |
| Maximum Charging Current: | 17,5A          |
| Standby use:              |                |
| Float Charging Voltage    | 13.6 to 13.8V  |
| Coefficient               | -3.0mv/°C/cell |

### Operating Temperature Range

|           |               |
|-----------|---------------|
| Charge    | -20°C to 40°C |
| Discharge | -20°C to 50°C |
| Storage   | -20°C to 40°C |

### Self- Discharge@25°C per Month

3%

|                                                  |      |      |
|--------------------------------------------------|------|------|
| Capacity affected by Temperature (10hr Capacity) | 40°C | 102% |
|                                                  | 25°C | 100% |
|                                                  | 0°C  | 85%  |

### Design Floating Life @25°C

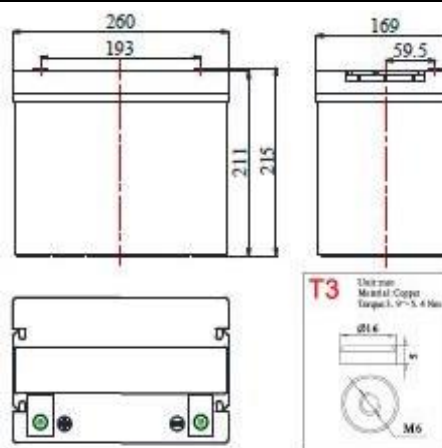
10 Years



## Dimensions

mm

|                     |                 |
|---------------------|-----------------|
| Length (L)          | 260             |
| Width (W)           | 169             |
| Height (H)          | 211             |
| Overall Height (HT) | 215             |
| Terminal            | M6 Bolt in - F8 |



### COMPLIED STANDARDS

IEC 60896-21/22

JIS C8704

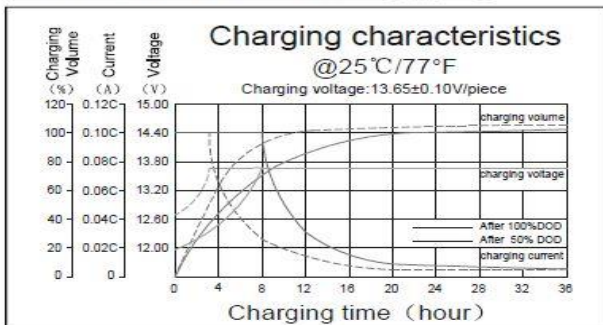
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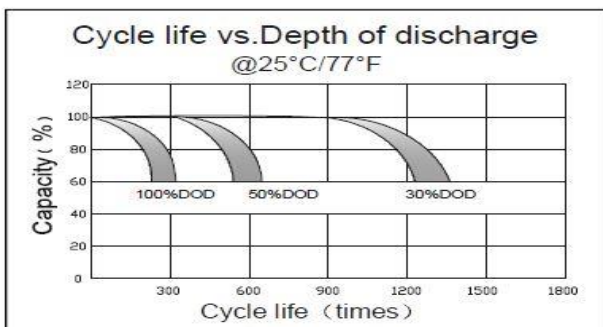
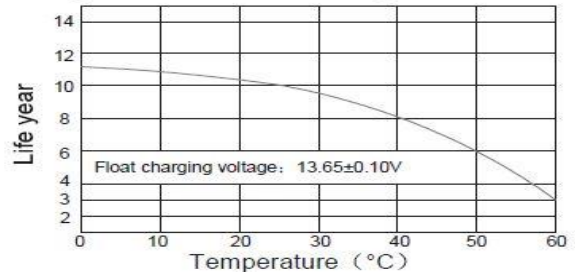
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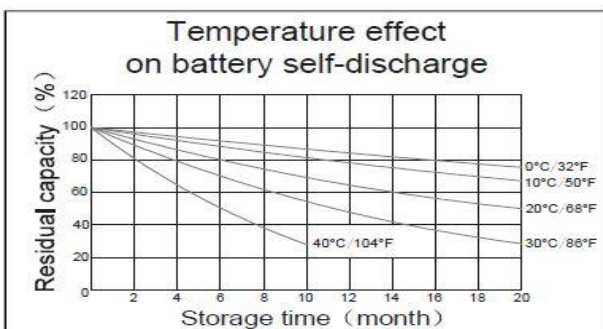
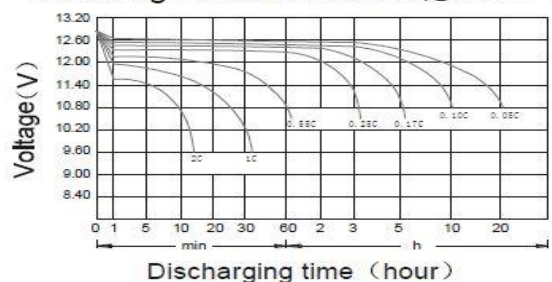
## PERFORMANCE CHARACTERISTICS



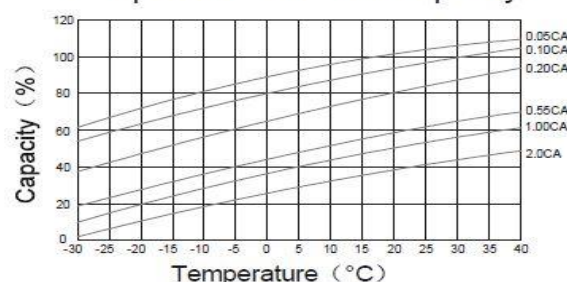
## Temperature effect on Design Service life



## Discharge characteristics(@25°C/77°F)



## Temperature effect on capacity



## BATTERY DISCHARGE TABEL

### Discharge Constant Current per Cell (Amperes at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 6h   | 8h  | 10h | 20h  |
|----------|-------|-------|-------|------|------|------|------|------|-----|-----|------|
| 1.60V    | 126.4 | 74.4  | 56.4  | 44.7 | 26.3 | 19.3 | 13.0 | 11.3 | 8.9 | 7.4 | 3.89 |
| 1.67V    | 119.4 | 70.5  | 54.2  | 43.3 | 25.4 | 18.7 | 12.8 | 11.1 | 8.8 | 7.2 | 3.85 |
| 1.70V    | 112.1 | 68.5  | 52.2  | 41.7 | 24.7 | 18.2 | 12.5 | 10.9 | 8.7 | 7.1 | 3.79 |
| 1.75V    | 105.0 | 65.5  | 49.9  | 40.0 | 24.1 | 17.8 | 12.3 | 10.7 | 8.5 | 7.1 | 3.75 |
| 1.80V    | 98.5  | 63.1  | 48.1  | 38.6 | 23.2 | 17.2 | 12.0 | 10.5 | 8.4 | 7.0 | 3.71 |

### Discharge Constant Power per Cell (Watts at 25°C)

| F.V/Time | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 6h   | 8h   | 10h  | 20h |
|----------|-------|-------|-------|------|------|------|------|------|------|------|-----|
| 1.60V    | 241.6 | 147.8 | 107.0 | 85.7 | 49.8 | 36.9 | 25.1 | 21.9 | 17.4 | 14.4 | 7.7 |
| 1.67V    | 231.1 | 138.5 | 103.4 | 83.4 | 48.4 | 35.9 | 24.7 | 21.6 | 17.2 | 14.2 | 7.6 |
| 1.70V    | 215.4 | 135.5 | 100.1 | 80.5 | 47.3 | 35.1 | 24.4 | 21.3 | 17.0 | 14.1 | 7.5 |
| 1.75V    | 202.1 | 129.0 | 96.1  | 77.6 | 46.2 | 34.4 | 24.0 | 20.9 | 16.8 | 13.9 | 7.5 |
| 1.80V    | 189.7 | 123.8 | 92.9  | 75.0 | 44.7 | 33.4 | 23.5 | 20.6 | 16.6 | 13.9 | 7.4 |

Contents in this data sheet are subject to change for improvement without prior notice to users.

For clarifications and updated information, please contact us.