



# UN65-12X (12V65Ah/10hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized.



Should the battery be accidentally overcharged producing hydrogen and oxygen, Special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

## Battery Construction

|              |                |                |           |       |              |          |            |               |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Component    | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator  | Electrolyte   |
| Raw material | Lead dioxide   | Lead           | ABS       | ABS   | Rubber       | Copper   | Fiberglass | Sulfuric acid |

## General Feature

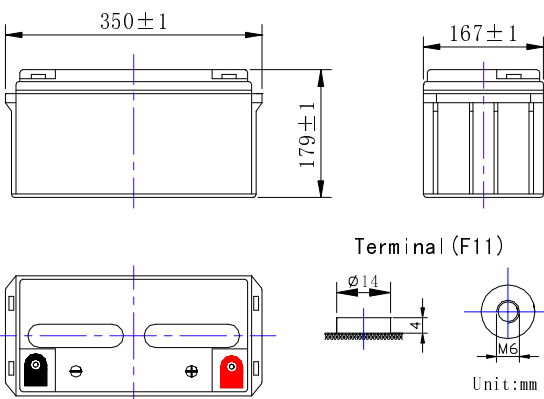
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

## Performance Characteristics

|   |   |        |
|---|---|--------|
| Capacity<br>77°F(25°C)                          | 20 hour rate (3.35A、 10.8V)                         | 67Ah   |
|   | 10 hour rate (6.5A、 10.8V)                          | 65Ah   |
|   | 5 hour rate (11.1A、 10.5V)                          | 55.5Ah |
|   | 1 hour rate (39.5A、 9.6V)                           | 39.5Ah |
| Internal Resistance                             | Full charged Battery77°F(25°C): 7.5mΩ               |        |
| Capacity affected by Temperature (10 hour rate) | 104° F(40°C)  | 102%   |
|   | 77° F(25°C)   | 100%   |
|   | 32° F(10°C)   | 85%    |
|   | 5° F(-15°C)   | 65%    |
| Self-Discharge<br>68°F(20°C)                    | Capacity after 3 month storage                      | 90%    |
|   | Capacity after 6 month storage                      | 80%    |
|   | Capacity after 12month storage                      | 60%    |
| Max. discharge current77°F(25°C): 650A(5S)      |   |        |
| Charge (Constant Voltage)                       | Float: 13.6~13.8 V/77° F(25°C)                      |        |
|   | Cycle:14.4~14.7 V/77°F(25°C)<br>Max. Current: 16.3A |        |

## SPECIFICATION

|                        |           |
|------------------------|-----------|
| Nominal voltage        | 12V       |
| Number of cell         | 6         |
| Length(mm/inch)        | 350/13.78 |
| Width(mm/inch)         | 167/6.57  |
| Height(mm/inch)        | 179/7.05  |
| Total Height(mm/inch)  | 179/7.05  |
| Approx. Weight(kg/lbs) | 19.6/43.2 |



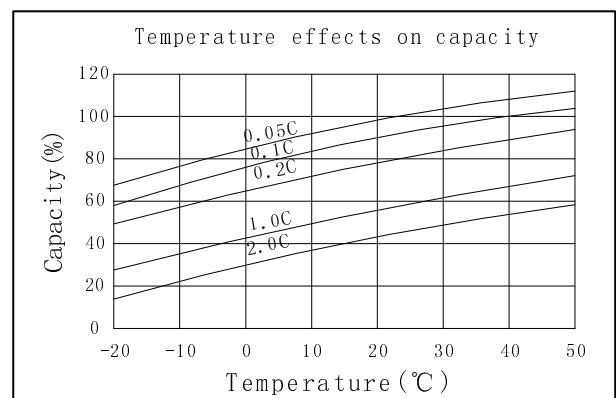
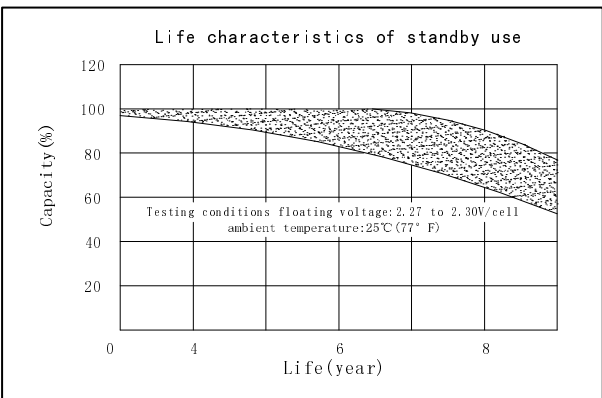
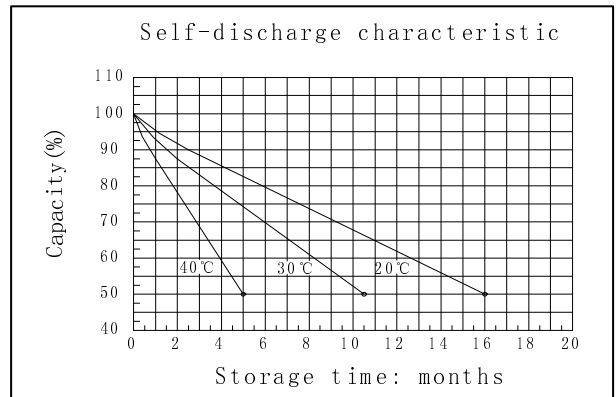
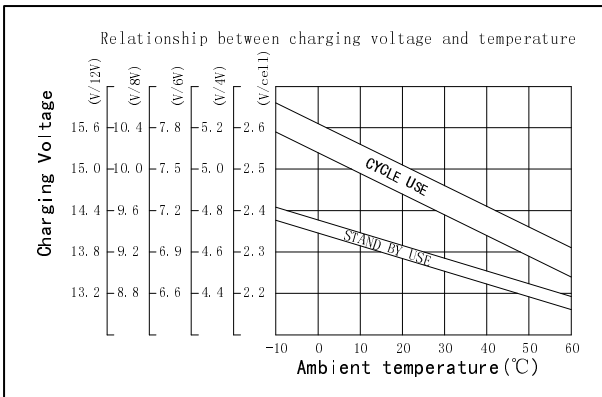
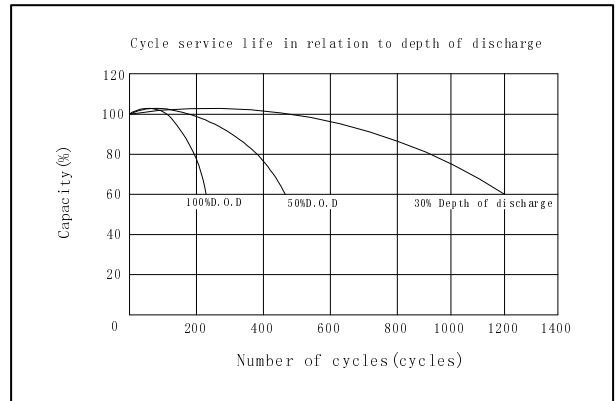
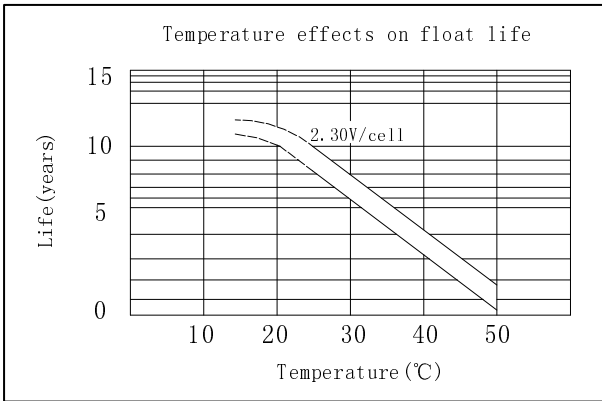
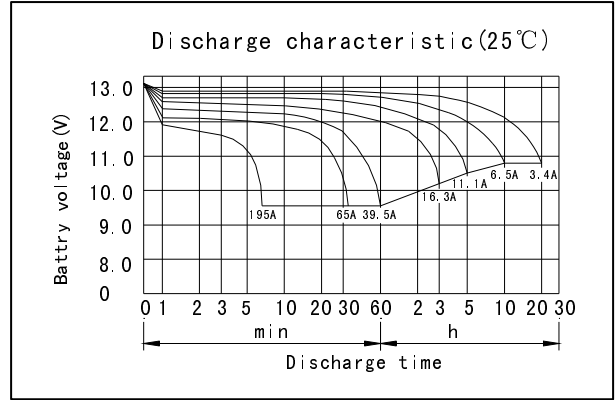
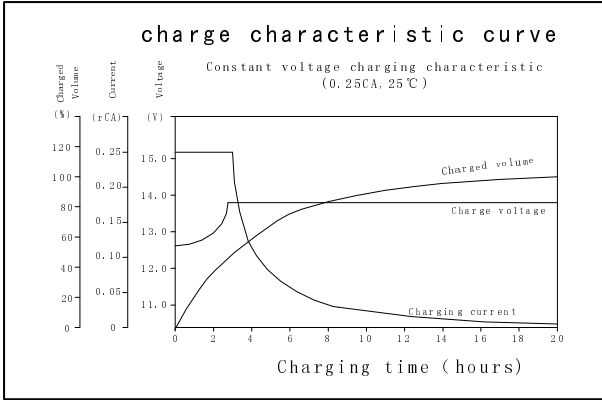
Discharge Constant Current (Amperes at 77° F25 °C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h   | 3h   | 5h   | 10h  | 20h  |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V                | 210  | 153   | 120   | 67.5  | 39.5 | 16.8 | 11.7 | 6.70 | 3.50 |
| 1.65V                | 200  | 147   | 115   | 65.5  | 38.3 | 16.6 | 11.5 | 6.70 | 3.50 |
| 1.70V                | 188  | 140   | 109   | 62.8  | 36.8 | 16.3 | 11.3 | 6.60 | 3.45 |
| 1.75V                | 174  | 131   | 103   | 59.8  | 35.0 | 16.0 | 11.1 | 6.60 | 3.40 |
| 1.80V                | 161  | 119   | 95.7  | 56.1  | 32.9 | 15.6 | 10.9 | 6.50 | 3.35 |

Discharge Constant Power (watts at 77° F 25 °C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V                | 361  | 268   | 210   | 125   | 96.7  | 76.7 | 49.8 | 34.4 | 23.0 |
| 1.65V                | 340  | 253   | 201   | 119   | 92.2  | 73.4 | 48.3 | 33.6 | 22.6 |
| 1.70V                | 317  | 237   | 191   | 112   | 87.6  | 70.1 | 46.7 | 32.6 | 22.1 |
| 1.75V                | 292  | 220   | 181   | 105   | 82.9  | 66.6 | 44.8 | 31.7 | 21.7 |
| 1.80V                | 265  | 201   | 170   | 97.6  | 78.1  | 63.0 | 42.9 | 30.6 | 21.1 |

(Note)The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum values.



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