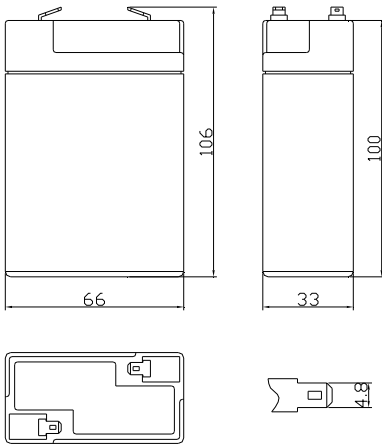


6V2.8Ah

The battery is constructed by plates, separators, safety valves and container.
 Since the electrolyte is held by a glassmat separator and plates, the battery can use in any direction and position without leakage.

Outer Dimensions



Dimensions and Weight

| | |
|----------------------------|-------------|
| Length (mm / inch) | 66 / 2.60 |
| Width (mm / inch) | 33 / 1.30 |
| Height (mm / inch) | 100 / 3.94 |
| Total Height (mm / inch) | 106 / 4.17 |
| Approx.Weight(Kg / lbs) | 0.51 / 1.12 |

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 |

Charging Methods

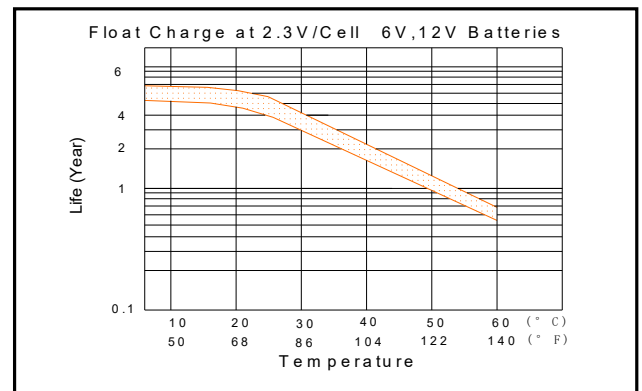
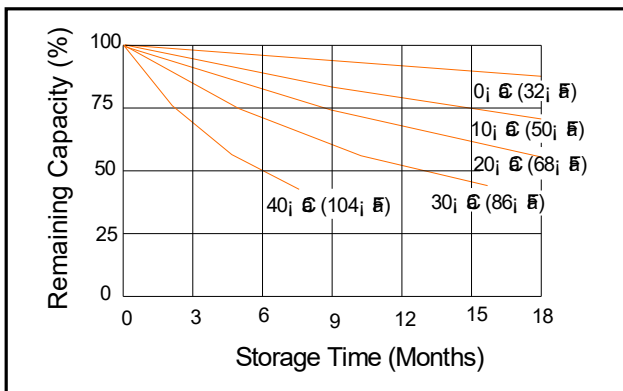
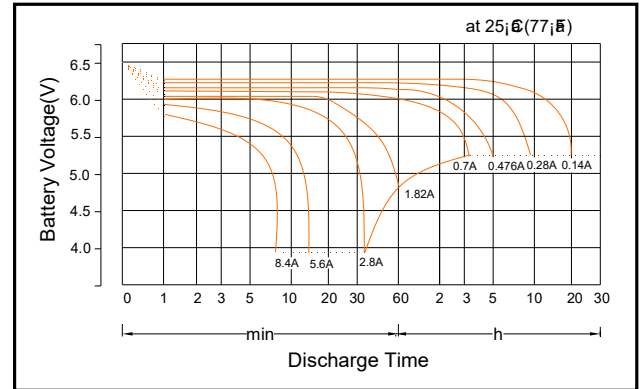
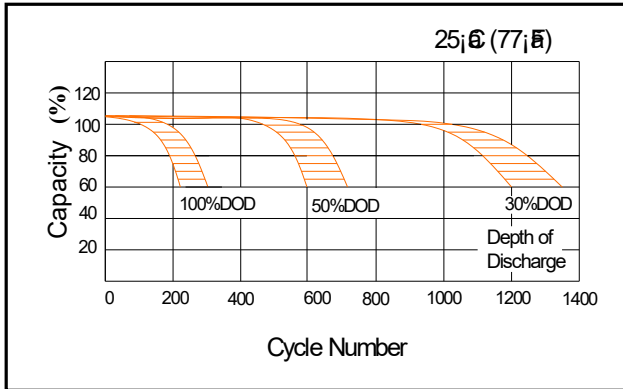
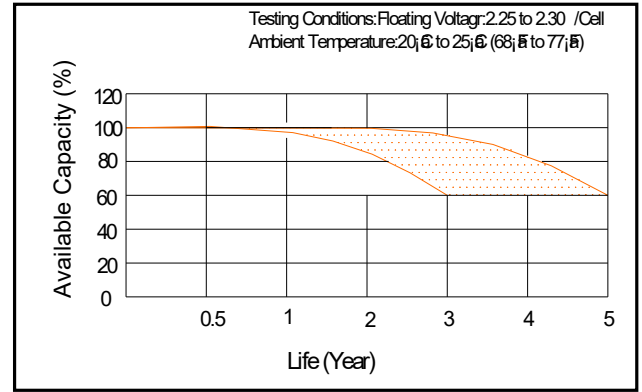
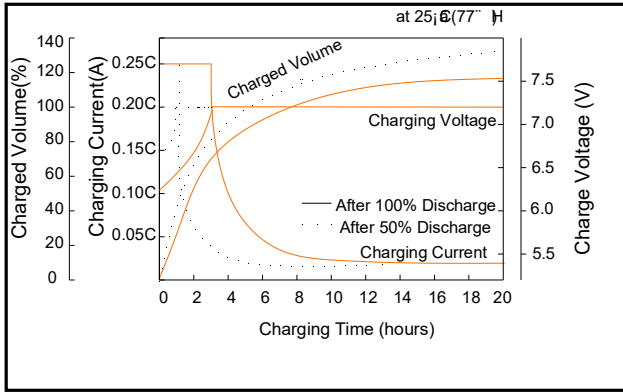
| Application | Charging method | Charging Voltage at 25°C | Temperature compensation coefficient of charging voltage | Max.charging current | Charging time 25°C(h) | | Temp (°C) (32~104°F) |
|--------------------------|---|--------------------------|--|----------------------|-----------------------|---------------|-------------------------|
| | | | | | 100% discharge | 50% discharge | |
| For standby power source | Constant voltage & Constant Current Charging (with current restriction) | 6.75-6.90V | -9 mV/°C | 0.84A | 24 | 20 | 0~40 (32~104°F) |
| For cycle service | | 7.30-7.50V | -15 mV/°C | 0.84A | 16 | 10 | |

*Temperature compensation of charging voltage is not needed when using the batteries within 15°C to 35°C range.

Performance Characteristics

| | |
|--|-----------|
| Nominal Voltage | 6V |
| Number of cell | 3 |
| Design Life | 5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate(0.14A,5.25V) | 2.8Ah |
| 10 hour rate(0.26A,5.25V) | 2.6Ah |
| 5 hour rate (0.48 A,5.25V) | 2.4Ah |
| 1 hour rate(1.82A,4.80V) | 1.82Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 30 mΩ |
| Self-Discharge | |
| 3% of capacity declined per month at 20°C(average) | |
| Operation Temperature Range | |
| Discharge | -20~60°C |
| Charge | -10~60°C |
| Storage | -20~60°C |
| Max.Discharge Current 77°F(25°C) | 33.6A(5s) |
| Short Circuit Current | 42A |

6V2.8Ah



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

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 9.80 | 7.84 | 5.60 | 3.22 | 2.30 | 1.82 | 0.98 | 0.71 | 0.48 | 0.32 | 0.27 | 0.15 |
| 1.65V | 9.52 | 7.56 | 5.32 | 3.16 | 2.27 | 1.81 | 0.97 | 0.71 | 0.48 | 0.32 | 0.27 | 0.15 |
| 1.70V | 8.96 | 7.00 | 5.04 | 3.08 | 2.24 | 1.79 | 0.97 | 0.70 | 0.48 | 0.32 | 0.26 | 0.14 |
| 1.75V | 7.84 | 5.88 | 4.76 | 2.91 | 2.21 | 1.76 | 0.95 | 0.69 | 0.48 | 0.31 | 0.26 | 0.14 |
| 1.80V | 7.00 | 5.04 | 4.48 | 2.52 | 2.18 | 1.74 | 0.92 | 0.67 | 0.47 | 0.31 | 0.25 | 0.14 |

Discharge Constant Power (Watts/cell at 77°F25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 17.9 | 14.3 | 10.3 | 6.24 | 4.37 | 3.50 | 1.88 | 1.37 | 0.93 | 0.62 | 0.51 | 0.28 |
| 1.65V | 17.1 | 13.7 | 9.73 | 6.02 | 4.31 | 3.44 | 1.87 | 1.36 | 0.92 | 0.61 | 0.51 | 0.28 |
| 1.70V | 16.3 | 12.9 | 9.31 | 5.74 | 4.26 | 3.44 | 1.86 | 1.35 | 0.92 | 0.61 | 0.50 | 0.26 |
| 1.75V | 14.3 | 10.9 | 8.75 | 5.40 | 4.20 | 3.39 | 1.83 | 1.34 | 0.92 | 0.60 | 0.50 | 0.26 |
| 1.80V | 12.74 | 9.80 | 8.26 | 4.68 | 4.14 | 3.33 | 1.77 | 1.30 | 0.91 | 0.60 | 0.48 | 0.26 |

