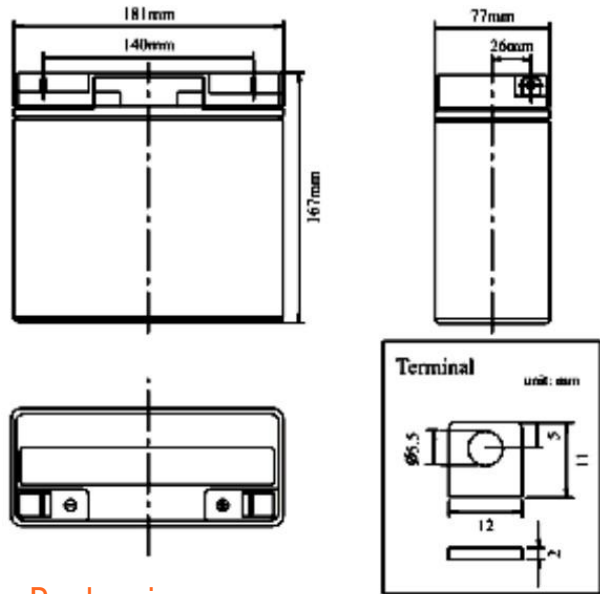


Product Image



Product Dimensions



Characteristics

| | | |
|---|----------------------------------|---|
| Nominal Voltage | | 12V |
| Nominal Capacity (20 hour rate) | | 18Ah |
| Capacity 25°C (77°F) | 10 hour rate (1.71A) | 17.1Ah |
| | 5 hour rate (3.22A) | 16.1Ah |
| | 1 hour rate (11.8A) | 11.8Ah |
| Internal Resistance | Full Charged Battery 25°C ≤ 12mΩ | |
| Capacity affected by Temperature (10 hour) | 40°C (104°F) | 102% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 85% |
| Self-Discharge 25°C (77°F) | after 3 month storage | 90% |
| | after 6 month storage | 80% |
| Capacity | after 12 month storage | 62% |
| Charge (Constant Voltage) 25°C (77°F) | Float | Initial Charging Current Less than 5.1A Voltage 13.6-13.8V |
| | Cycle | Initial Charging Current Less than 5.1A Voltage 14.4-15.0V |

Packaging

| | | |
|-----------------------|-----------------|---------------|
| Battery Dimensions | Length | 181mm |
| | Width | 77mm |
| | Height | 167mm |
| | Total Height | 167mm |
| Box Dimensions | Length | 341mm |
| | Width | 195mm |
| | Height | 213mm |
| Quantity Per Box | | 2 pcs per box |
| Net weight Per Cell | | 4.8 kg±50g |
| Net weight Per Box | | 9.6kg |
| Gross Weight | | 10kg |

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

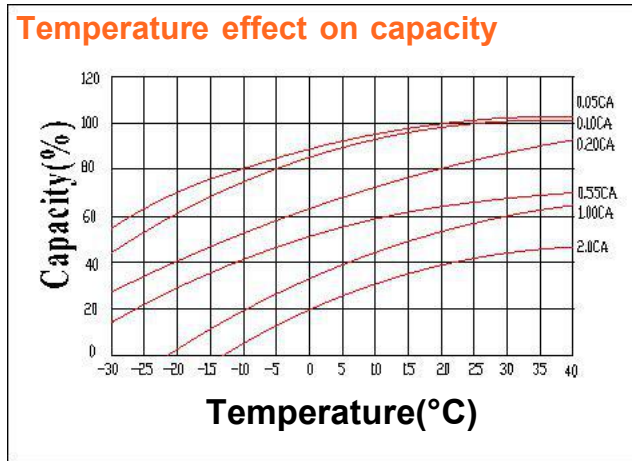
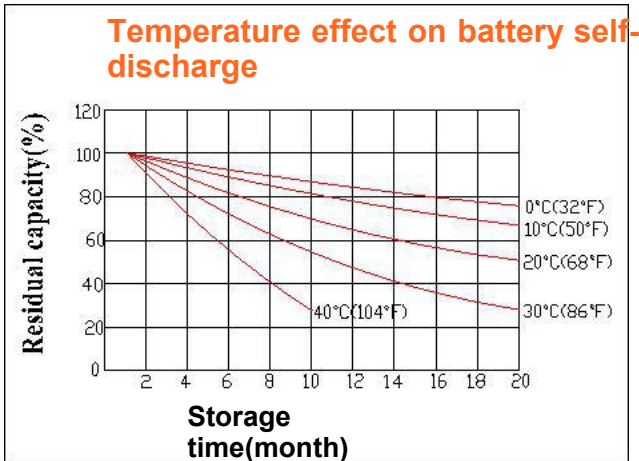
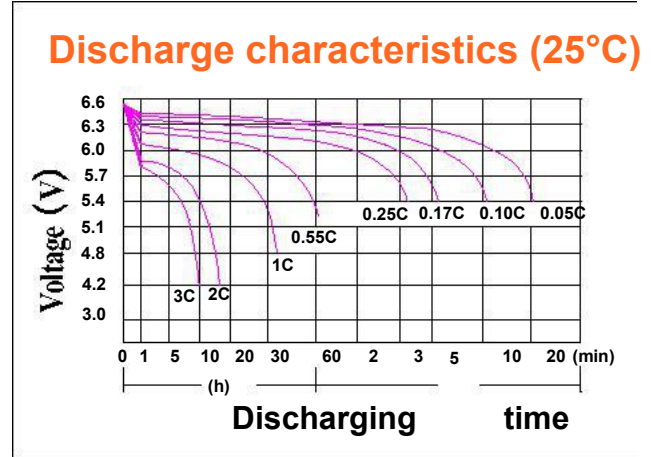
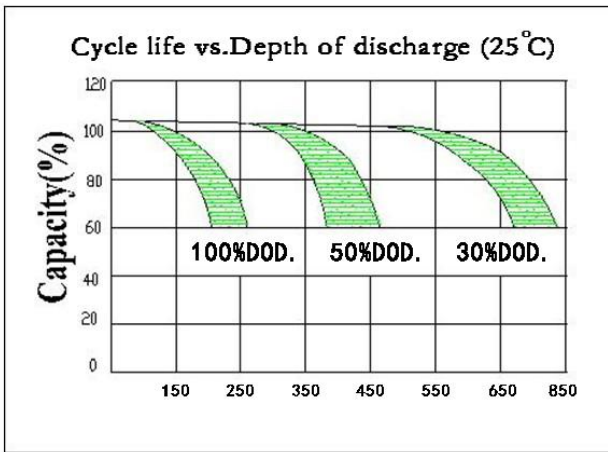
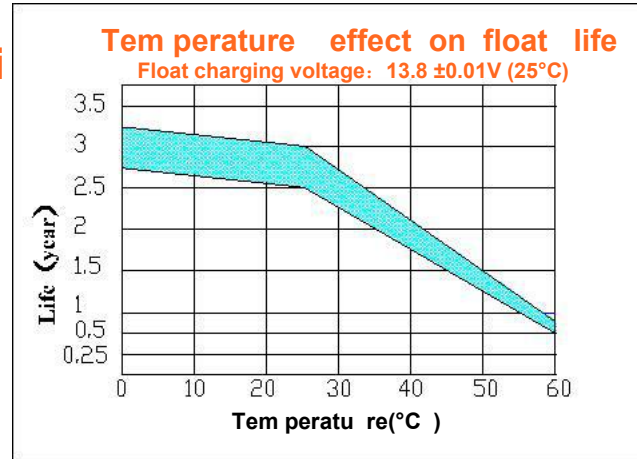
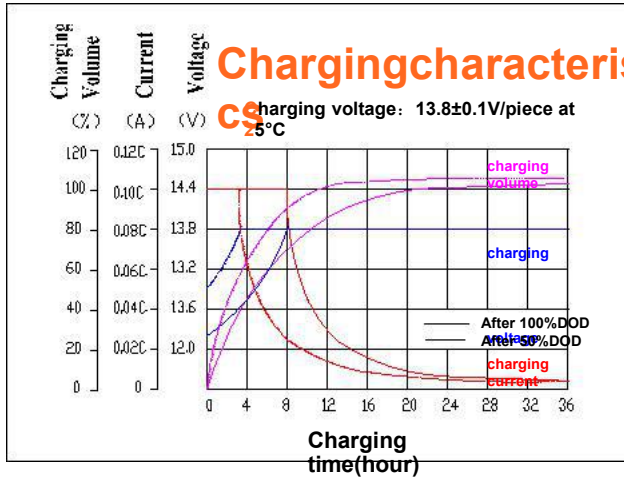
| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V | 56.10 | 37.40 | 28.14 | 18.70 | 13.09 | 11.22 | 7.01 | 4.81 | 3.20 | 2.15 | 1.78 | 0.94 |
| 1.65V | 55.08 | 36.72 | 27.63 | 18.36 | 12.85 | 11.02 | 6.89 | 4.72 | 3.15 | 2.11 | 1.75 | 0.92 |
| 1.70V | 54.06 | 36.04 | 27.12 | 18.02 | 12.61 | 10.81 | 6.76 | 4.63 | 3.09 | 2.08 | 1.72 | 0.90 |
| 1.75V | 53.04 | 35.36 | 26.61 | 17.68 | 12.38 | 10.61 | 6.63 | 4.54 | 3.03 | 2.04 | 1.68 | 0.88 |
| 1.80V | 51.00 | 34.00 | 25.58 | 17.00 | 11.90 | 10.20 | 6.38 | 4.37 | 2.91 | 1.96 | 1.62 | 0.85 |

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

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|--------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 107.99 | 72.00 | 54.17 | 36.00 | 25.20 | 21.60 | 13.50 | 9.25 | 6.17 | 4.15 | 3.43 | 1.80 |
| 1.65V | 106.03 | 70.69 | 53.19 | 35.34 | 24.74 | 21.21 | 13.25 | 9.08 | 6.06 | 4.07 | 3.36 | 1.77 |
| 1.70V | 104.07 | 69.38 | 52.20 | 34.69 | 24.28 | 20.81 | 13.01 | 8.91 | 5.94 | 4.00 | 3.30 | 1.73 |
| 1.75V | 102.10 | 68.07 | 51.22 | 34.03 | 23.82 | 20.42 | 12.76 | 8.75 | 5.83 | 3.92 | 3.24 | 1.70 |
| 1.80V | 98.18 | 65.45 | 49.25 | 32.73 | 22.91 | 19.64 | 12.27 | 8.41 | 5.61 | 3.77 | 3.11 | 1.64 |

Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.

Performance Characteristics



Battery Construction

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