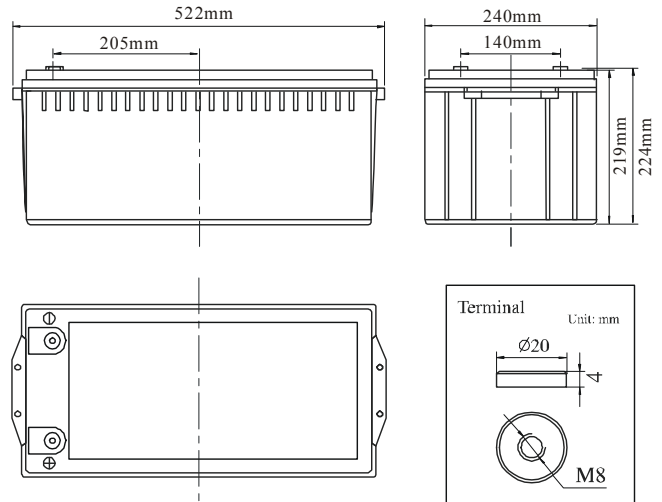


Product Image



Product Dimensions



Characteristics

| | | |
|---|---------------------------|--|
| Nominal Voltage | | 12V |
| Nominal Capacity (10 hour rate) | | 180Ah |
| Capacity 25°C (77°F) | 20 hour rate (9.99A) | 199.8Ah |
| | 5 hour rate (32.9A) | 164.5Ah |
| | 1 hour rate (119.8A) | 119.8Ah |
| Internal Resistance | Full Charged Battery 25°C | ≤3.0mΩ |
| 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) Capacity | after 3 month storage | 90% |
| | after 6 month storage | 80% |
| | after 12 month storage | 62% |
| Charge (Constant Voltage) 25°C (77°F) | Float | Initial Charging Current Less than 36A Voltage 13.6-13.8V |
| | Cycle | Initial Charging Current Less than 36A Voltage 14.4-14.9V |

Packaging

| | | |
|-----------------------|-----------------|--------------|
| Battery Dimensions | Length | 522mm |
| | Width | 240mm |
| | Height | 219mm |
| | Total Height | 224mm |
| Box Dimensions | Length | 537mm |
| | Width | 255mm |
| | Height | 299mm |
| Quantity Per Box | | 1 PC per box |
| Net weight Per Cell | | 55.3kg±3% |
| Net weight Per Box | | 55.3kg |
| Gross Weight | | 56kg |

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

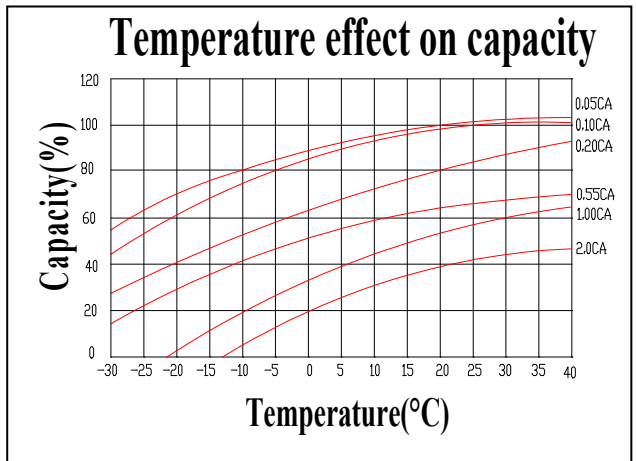
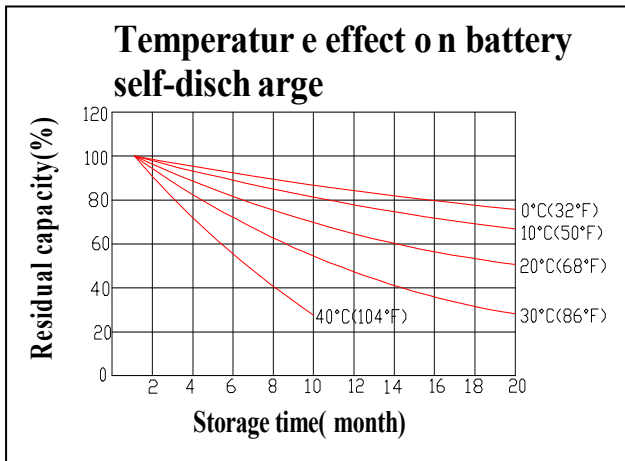
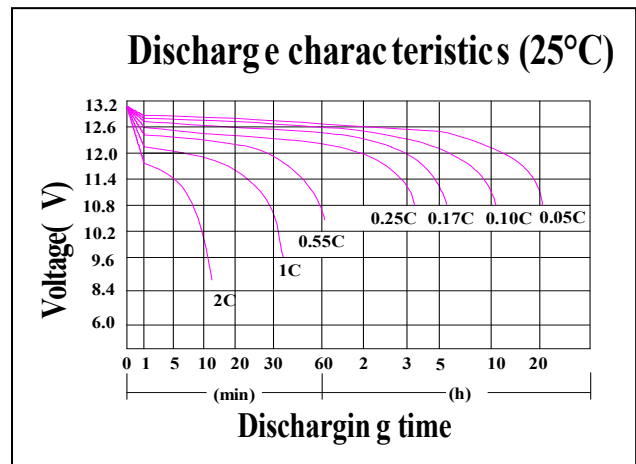
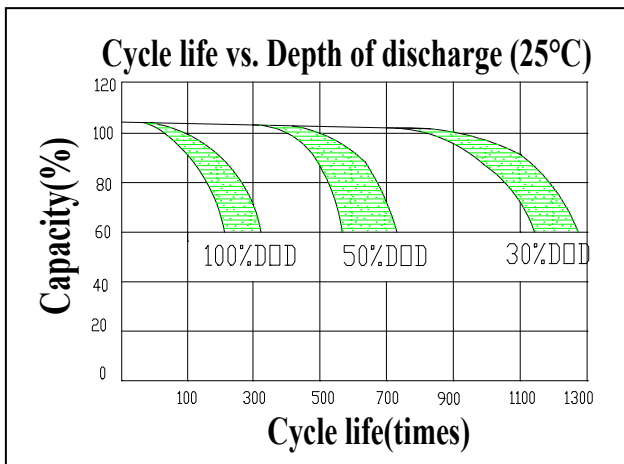
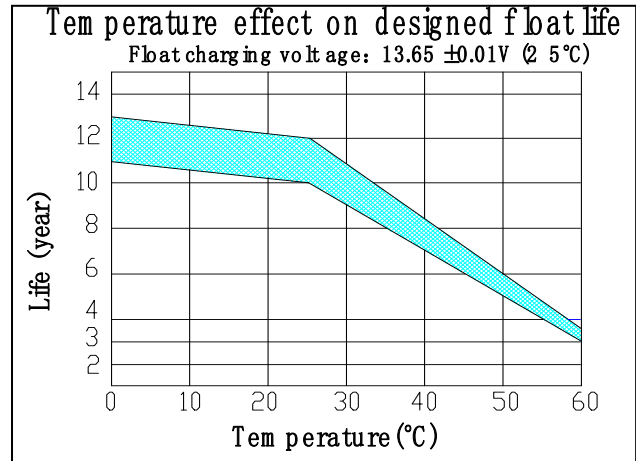
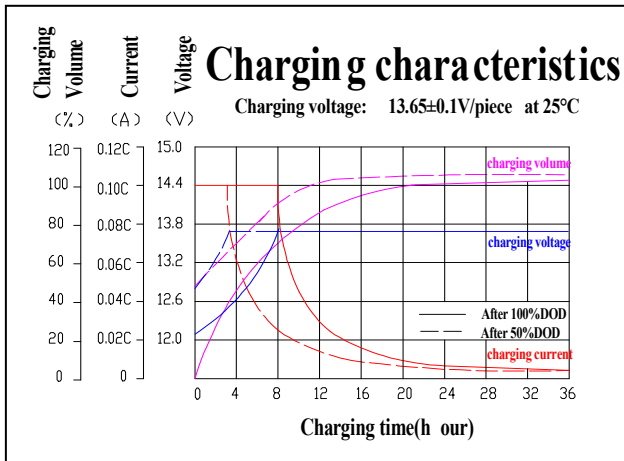
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|-------|-------|
| 1.60V | 303.9 | 189.1 | 135.7 | 119.8 | 73.0 | 53.4 | 34.3 | 21.0 | 18.72 | 10.39 |
| 1.65V | 291.2 | 184.0 | 132.0 | 116.5 | 71.6 | 52.4 | 33.9 | 20.8 | 18.54 | 10.29 |
| 1.70V | 278.6 | 179.0 | 128.4 | 113.3 | 70.3 | 51.4 | 33.4 | 20.6 | 18.36 | 10.19 |
| 1.75V | 265.9 | 173.9 | 124.8 | 110.1 | 68.6 | 50.2 | 32.9 | 20.4 | 18.18 | 10.09 |
| 1.80V | 253.3 | 168.8 | 121.1 | 106.9 | 67.0 | 49.0 | 32.4 | 20.2 | 18.00 | 9.99 |

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

| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 566.8 | 352.7 | 253.0 | 223.3 | 136.1 | 99.5 | 64.1 | 39.1 | 34.9 | 19.4 |
| 1.65V | 543.2 | 343.2 | 246.3 | 217.4 | 133.6 | 97.7 | 63.1 | 38.7 | 34.6 | 19.2 |
| 1.70V | 519.6 | 333.8 | 239.5 | 211.4 | 131.1 | 95.9 | 62.2 | 38.4 | 34.2 | 19.0 |
| 1.75V | 495.9 | 324.3 | 232.7 | 205.4 | 128.0 | 93.6 | 61.3 | 38.0 | 33.9 | 18.8 |
| 1.80V | 472.3 | 314.9 | 225.9 | 199.4 | 124.9 | 91.3 | 60.4 | 37.6 | 33.6 | 18.6 |

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. Contact **MCA** for the latest information.

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 |