

GENERAL FEATURES

- Environmentally friendly
- Able to operate at 60°C
- Integrated design to ensure the best uniformity and reliability
- Long life and high stability under high temp. environment (no air-con needed)
- Use super-C additives: Deep discharge recovery capability

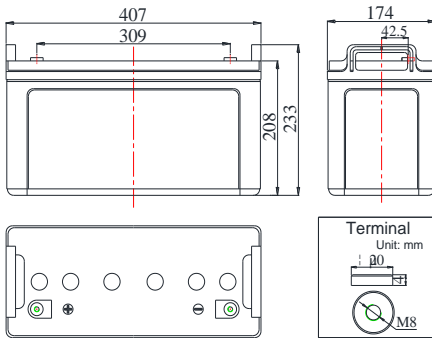
APPLICATIONS

- Solar & Wind energy system
- BTS Stations
- UPS system
- Telecom systems
- Wheel chair & Golf Car
- Marine Equipment
- Railway Systems



DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 407±1 |
| Width(mm) | 174±1 |
| Height(mm) | 208±1 |
| Total Height(mm) | 233±1 |
| Weight(kg) | 39.5±3% |



COMPLIED STANDARDS

| | |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704 |
| YD/T1360 | BS6290 part4 |
| GB/T 19638 | UL 1989 |

TECHNICAL SPECIFICATIONS



| | | |
|---|-----------------------------|--|
| Nominal Voltage | | 12V(6 cells per unit) |
| Design Floating Life @25°C | | 15 Years |
| Nominal Capacity @25°C (20 hour rate @6.00A,10.50V) | | 120Ah |
| Capacity @25°C | 10 hour rate (10.92A,10.8V) | 109.2Ah |
| | 5 hour rate (19.1A,10.5V) | 95.5Ah |
| | 1 hour rate (66.7A,9.6V) | 66.7Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤5.5mΩ |
| Ambient Temperature | Discharge | -30°C~60°C |
| | Charge | -30°C~60°C |
| | Storage | -30°C~60°C |
| Max.Discharge Current@25°C | | 1200A(5s) |
| Capacity affected by Temperature (10 hr Capacity) | 40°C | 108% |
| | 25°C | 100% |
| | 0°C | 90% |
| | -15°C | 70% |
| Self-Discharge@25°C per Month | | 3% |
| Charge (Constant Voltage) @25°C | Standby Use | Initial Charging Current Less than 21.6A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 21.6A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

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

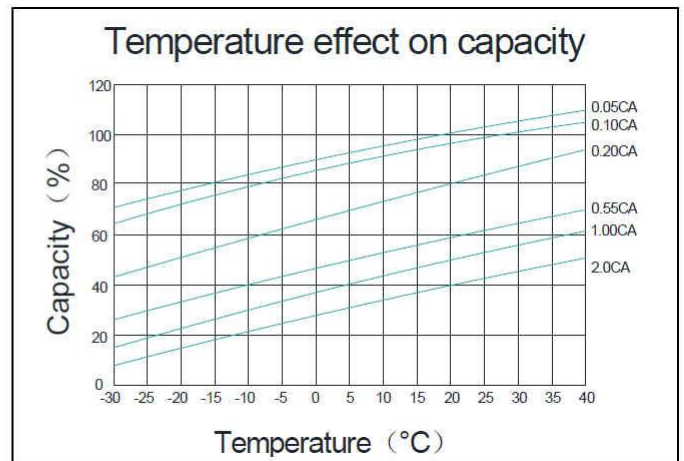
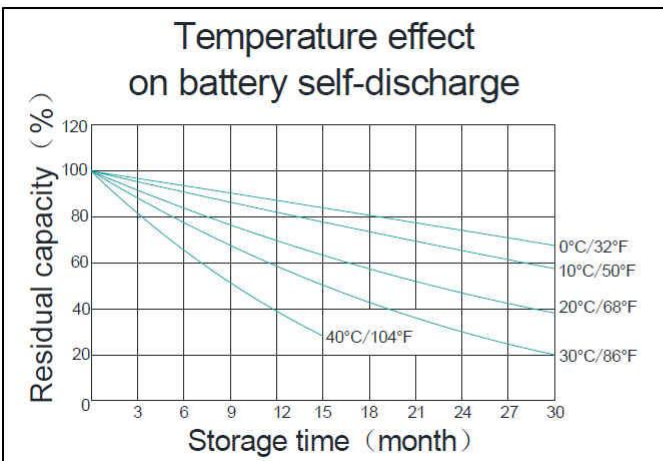
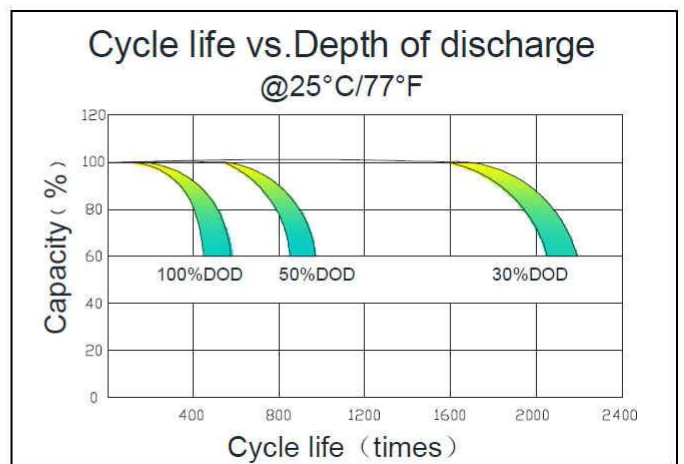
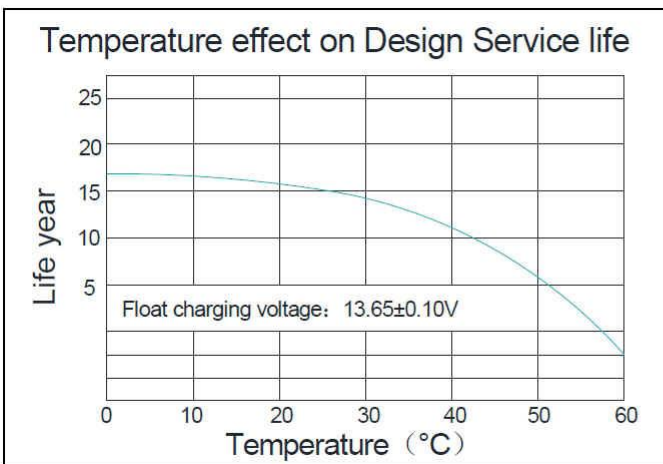
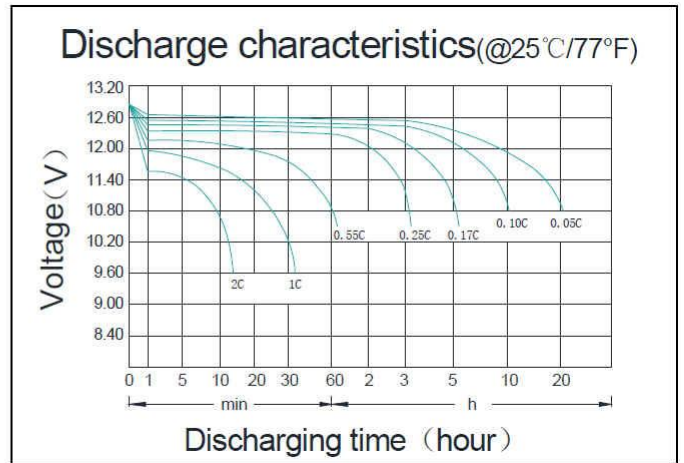
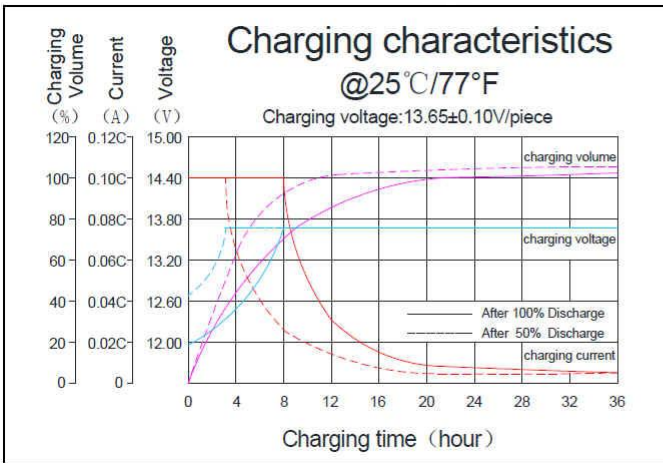
| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|------|------|------|------|------|-------|------|------|
| 1.60V | 154.4 | 98.6 | 72.5 | 66.7 | 42.4 | 29.8 | 20.2 | 13.3 | 11.88 | 6.36 | 1.44 |
| 1.67V | 151.7 | 96.8 | 71.2 | 65.4 | 41.5 | 29.2 | 19.8 | 13.1 | 11.64 | 6.24 | 1.42 |
| 1.70V | 148.8 | 95.0 | 69.8 | 64.2 | 40.8 | 28.7 | 19.4 | 12.8 | 11.40 | 6.12 | 1.38 |
| 1.75V | 146.0 | 93.2 | 68.5 | 63.0 | 40.0 | 28.1 | 19.1 | 12.6 | 11.28 | 6.00 | 1.36 |
| 1.80V | 140.4 | 89.6 | 65.9 | 60.6 | 38.4 | 27.0 | 18.4 | 12.1 | 10.92 | 5.94 | 1.33 |

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

| F.V/Time | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h | 100h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 297.2 | 189.8 | 139.6 | 128.0 | 81.4 | 57.1 | 38.9 | 25.6 | 22.9 | 12.4 | 2.77 |
| 1.67V | 291.8 | 186.4 | 136.9 | 125.8 | 79.9 | 56.2 | 38.2 | 25.2 | 22.4 | 12.1 | 2.71 |
| 1.70V | 286.4 | 182.9 | 134.4 | 123.4 | 78.5 | 55.1 | 37.4 | 24.7 | 22.1 | 12.1 | 2.66 |
| 1.75V | 281.0 | 179.4 | 131.9 | 121.1 | 76.9 | 54.0 | 36.7 | 24.2 | 21.6 | 11.9 | 2.62 |
| 1.80V | 270.2 | 172.6 | 126.8 | 116.4 | 74.0 | 52.0 | 35.4 | 23.3 | 20.8 | 11.5 | 2.57 |

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 | Pillar seal |
|-----------|--|---|------------------------|------------------------------------|--|--|---|-----------------------------|
| Features | Thick high Sn low Ca grid with special paste | Balanced Pb-Ca grid for improved recombination efficiency | ABS (UL94-V0 optional) | Flame Si-Rubbeand aging resistance | Female Copper Insert M6(torque:4~6N.m) | Advanced AGM separator for high pressure cell design | Diluted high purity sulfuric acid with fumed Silica gel | Two layers epoxy resin seal |

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