

GENERAL FEATURES

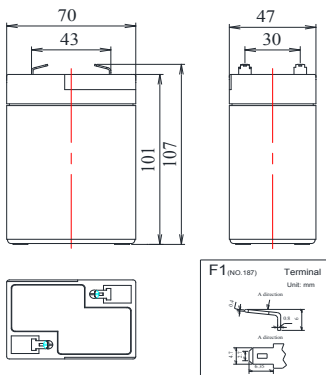
- Environmentally friendly
- Can be used at vertical or horizontal orientation
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Maintenance-Free Operation

APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- Cable TV Systems
- Alarm Systems
- Electric Test Equipment
- Security Systems

DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 70±1 |
| Width(mm) | 47±1 |
| Height(mm) | 101±1 |
| Total Height(mm) | 107±1 |
| Weight(kg) | 0.80±3% |



COMPLIED STANDARDS

| | |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704 |
| YD/T799 | BS6290 part4 |
| GB/T 19639 | UL 1989 |

TECHNICAL SPECIFICATIONS



| | | |
|--|----------------------------|---|
| Nominal Voltage | | 6V(3 cells per unit) |
| Design Floating Life @25°C | | 5 Years |
| Nominal Capacity @25°C (20 hour rate@0.250A,5.25V) | | 5.00Ah |
| Capacity @25°C | 10 hour rate (0.47A,5.40V) | 4.70Ah |
| | 5 hour rate (0.88A,5.25V) | 4.40Ah |
| | 1 hour rate (3.26A,4.80V) | 3.26Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤15.0mΩ |
| Ambient Temperature | Discharge | -20°C ~50°C |
| | Charge | -20°C ~50°C |
| | Storage | -20°C ~50°C |
| Max.Discharge Current@25°C | | 75.0A(5s) |
| Capacity affected by Temperature (10 hr Capacity) | 40°C | 102% |
| | 25°C | 100% |
| | 0°C | 85% |
| | -15°C | 65% |
| Self-Discharge@25°C per Month | | 3% |
| Charge (Constant Voltage) @25°C | Standby Use | Initial Charging Current Less than 1.50A Voltage 6.8-6.9V |
| | Cycle Use | Initial Charging Current Less than 1.50A Voltage 7.2-7.45V |

BATTERY DISCHARGE TABLE

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

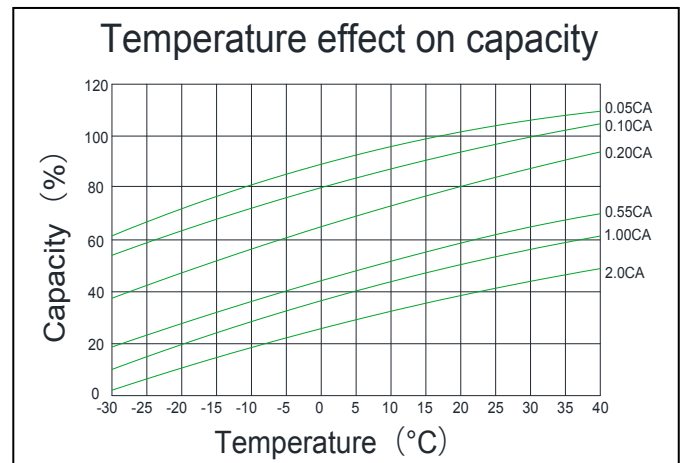
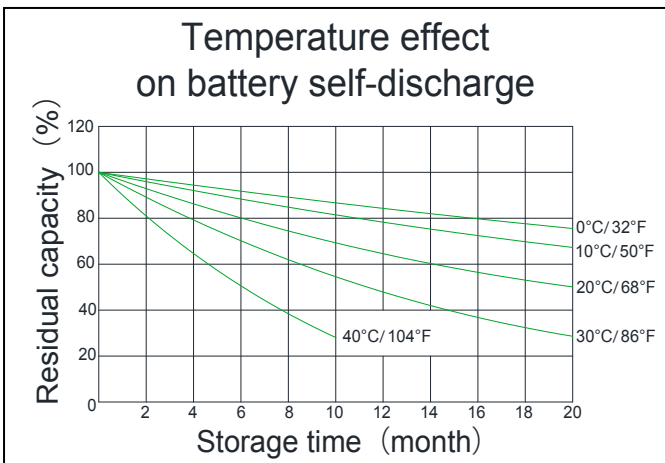
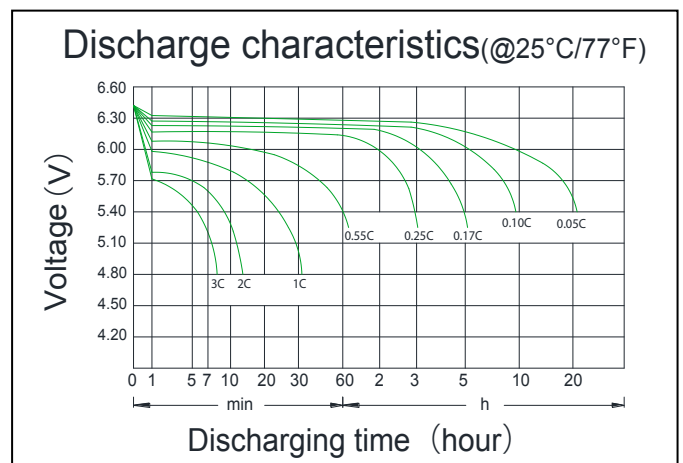
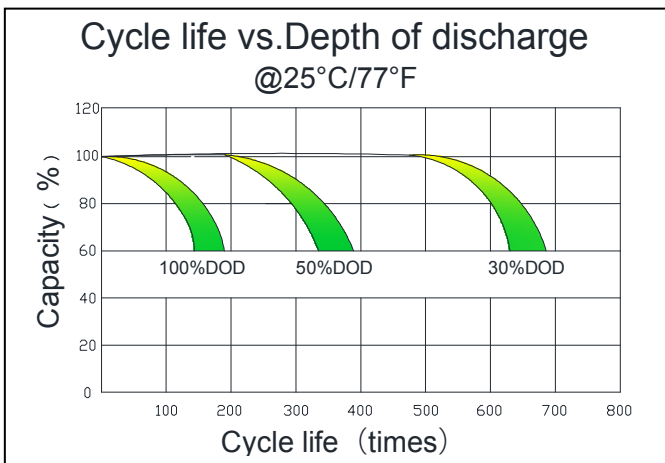
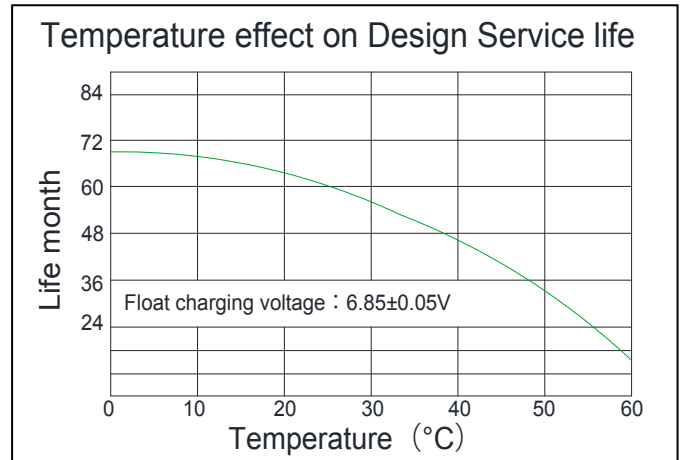
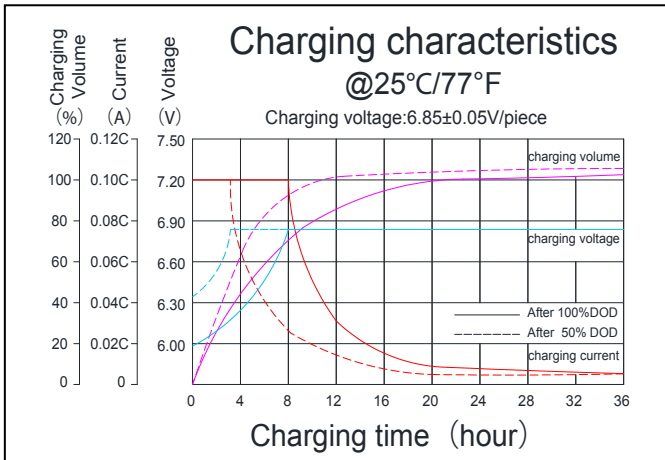
| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 19.96 | 13.09 | 9.61 | 5.70 | 4.16 | 3.26 | 2.06 | 1.41 | 0.92 | 0.63 | 0.50 | 0.264 |
| 1.67V | 19.01 | 12.54 | 9.40 | 5.61 | 4.09 | 3.16 | 2.03 | 1.39 | 0.91 | 0.62 | 0.49 | 0.259 |
| 1.70V | 18.21 | 11.86 | 9.27 | 5.53 | 4.04 | 3.06 | 1.99 | 1.36 | 0.89 | 0.61 | 0.49 | 0.255 |
| 1.75V | 17.36 | 11.31 | 8.78 | 5.35 | 3.93 | 2.96 | 1.95 | 1.34 | 0.88 | 0.60 | 0.48 | 0.250 |
| 1.80V | 16.03 | 10.53 | 8.19 | 5.14 | 3.80 | 2.88 | 1.88 | 1.29 | 0.84 | 0.59 | 0.47 | 0.247 |

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

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 37.16 | 25.11 | 18.57 | 11.09 | 8.11 | 6.42 | 4.05 | 2.79 | 1.83 | 1.26 | 1.00 | 0.527 |
| 1.67V | 35.61 | 24.10 | 18.21 | 10.94 | 8.01 | 6.20 | 3.98 | 2.74 | 1.80 | 1.25 | 0.99 | 0.519 |
| 1.70V | 34.15 | 22.79 | 18.01 | 10.81 | 7.93 | 5.98 | 3.91 | 2.69 | 1.77 | 1.23 | 0.99 | 0.513 |
| 1.75V | 32.71 | 21.76 | 17.09 | 10.49 | 7.74 | 5.76 | 3.83 | 2.64 | 1.73 | 1.22 | 0.97 | 0.502 |
| 1.80V | 30.50 | 20.35 | 15.97 | 10.10 | 7.50 | 5.54 | 3.68 | 2.53 | 1.67 | 1.18 | 0.96 | 0.500 |

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 **DBS srl** 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 resistancer | Female Copper Insert (F1/F2) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |