

GENERAL FEATURES

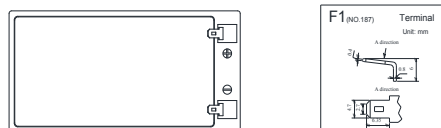
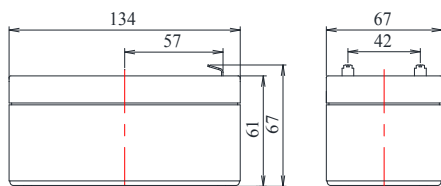
- Environmentally friendly
- Can be used at vertical or horizontal orientation
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Maintenance-Free Operation

APPLICATIONS

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

DIMENSIONS & WEIGHT

| | |
|------------------|---------|
| Length(mm) | 134±1 |
| Width(mm) | 67±1 |
| Height (mm) | 61±1 |
| Total Height(mm) | 67±1 |
| Weight(kg) | 1.22±3% |



COMPLIED STANDARDS

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

TECHNICAL SPECIFICATIONS



| | | |
|--|----------------------------|--|
| Nominal Voltage | | 12V(6 cells per unit) |
| Design Floating Life @25°C | | 5 Years |
| Nominal Capacity @25°C(20 hour rate@0.165A,10.50V) | | 3.30Ah |
| Capacity @25°C | 10 hour rate (0.31A,10.8V) | 3.10Ah |
| | 5 hour rate (0.55A,10.5V) | 2.75Ah |
| | 1 hour rate (2.27A,9.6V) | 2.27Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤50.0mΩ |
| Ambient Temperature | Discharge | -20°C ~50°C |
| | Charge | -20°C ~50°C |
| | Storage | -20°C ~50°C |
| Max.Discharge Current@25°C | | 49.5A(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 0.99A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 0.99A Voltage 14.4-14.9V |

BATTERY DISCHARGE TABLE

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

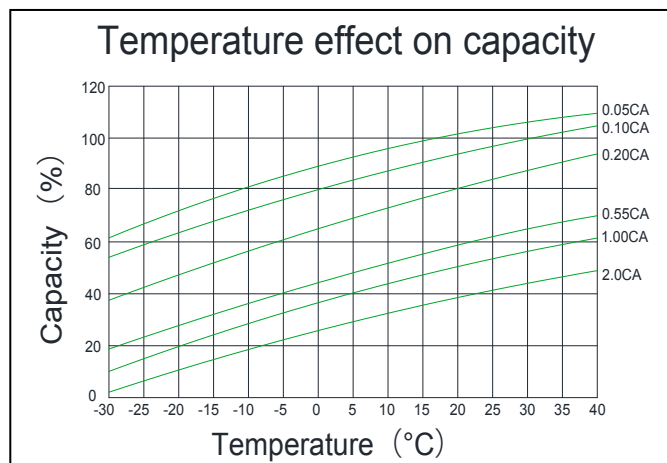
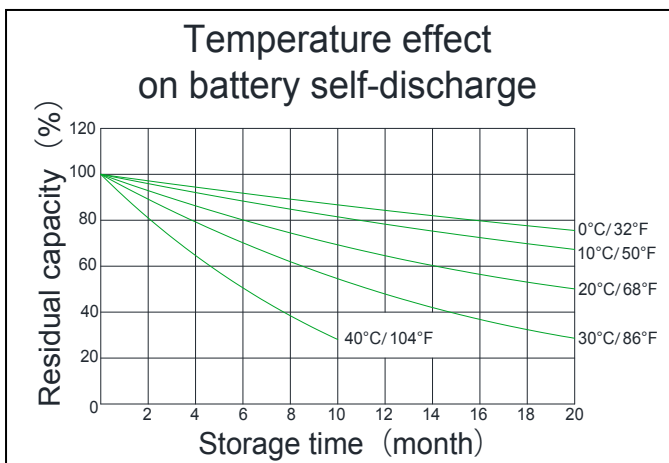
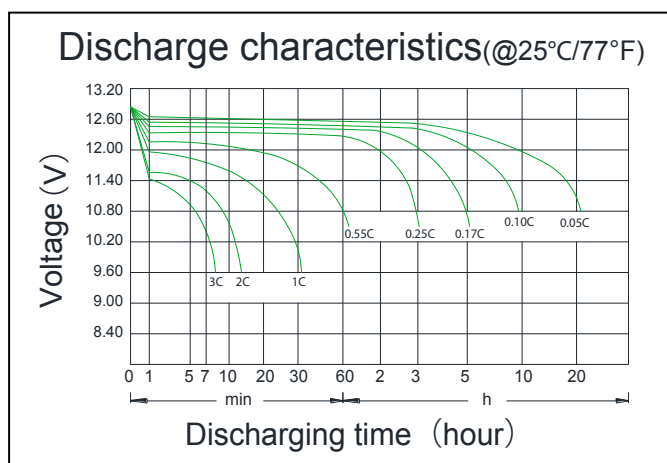
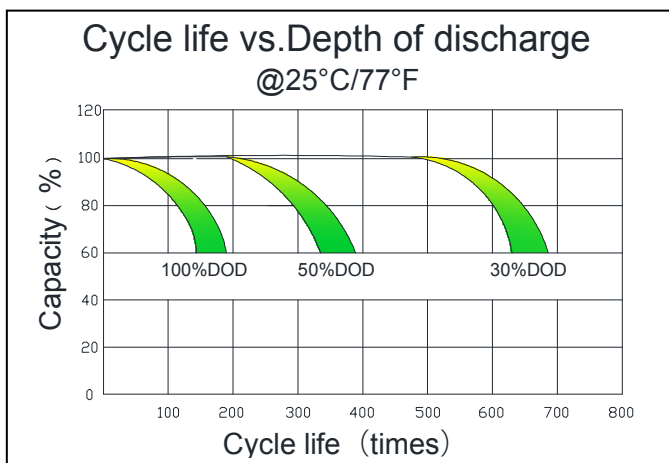
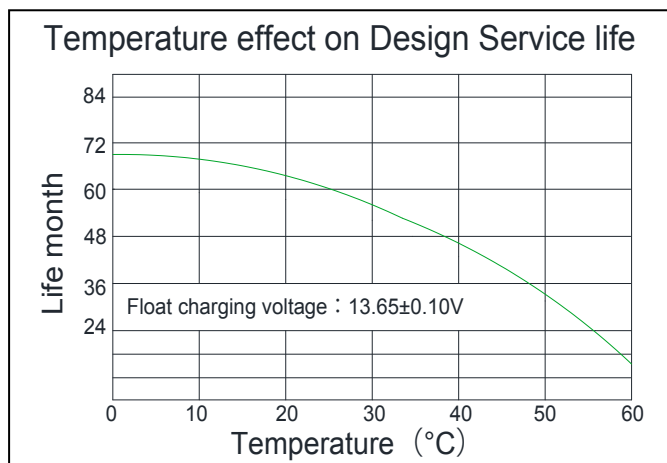
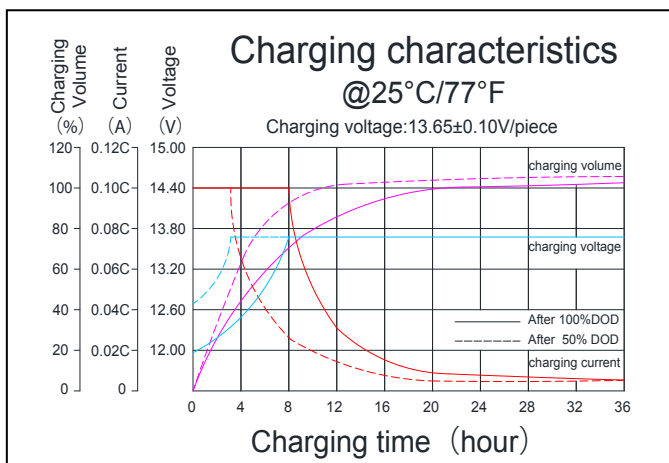
| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 11.34 | 8.20 | 6.46 | 3.78 | 2.65 | 2.27 | 1.33 | 0.92 | 0.58 | 0.41 | 0.33 | 0.174 |
| 1.67V | 11.14 | 8.11 | 6.28 | 3.71 | 2.60 | 2.23 | 1.31 | 0.90 | 0.58 | 0.40 | 0.33 | 0.171 |
| 1.70V | 10.93 | 7.88 | 6.14 | 3.64 | 2.55 | 2.19 | 1.29 | 0.88 | 0.56 | 0.39 | 0.32 | 0.168 |
| 1.75V | 10.73 | 7.52 | 5.96 | 3.58 | 2.50 | 2.15 | 1.26 | 0.87 | 0.55 | 0.39 | 0.32 | 0.165 |
| 1.80V | 10.31 | 7.43 | 5.78 | 3.44 | 2.41 | 2.06 | 1.21 | 0.83 | 0.53 | 0.37 | 0.31 | 0.163 |

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 | 21.84 | 16.18 | 12.47 | 7.28 | 5.10 | 4.37 | 2.57 | 1.76 | 1.15 | 0.79 | 0.65 | 0.344 |
| 1.67V | 21.44 | 15.90 | 12.10 | 7.15 | 5.00 | 4.29 | 2.52 | 1.73 | 1.13 | 0.77 | 0.64 | 0.335 |
| 1.70V | 21.04 | 15.58 | 11.78 | 7.01 | 4.91 | 4.21 | 2.48 | 1.70 | 1.11 | 0.76 | 0.63 | 0.330 |
| 1.75V | 20.65 | 14.67 | 11.46 | 6.88 | 4.82 | 4.13 | 2.43 | 1.66 | 1.09 | 0.75 | 0.62 | 0.325 |
| 1.80V | 19.85 | 14.21 | 11.14 | 6.62 | 4.63 | 3.97 | 2.34 | 1.60 | 1.05 | 0.72 | 0.60 | 0.321 |

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 (NO.187) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |