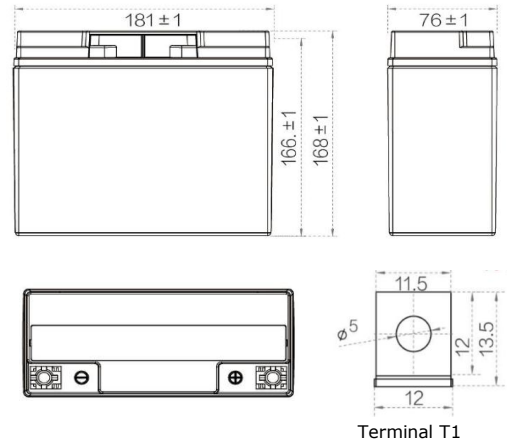


Specifications

| | | |
|----------------------------------|--|------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(20hr) | 18AH | |
| Dimension | Length | 181±2mm(5.94inch) |
| | Width | 77±2mm(3.03inch) |
| | Height | 167±2mm(6.57inch) |
| | Total Height | 167±2mm(6.57inch) |
| Approx Weight | Approx. 5.7kg(+ -4%) | |
| Terminal Type | T1 | |
| container Material | ABS(UL-94HB) | |
| Internal Resistance | Approx.10.0mΩ | |
| Rated Capacity | 18.8AH | (20hr, 1.70V/cell,25°C/77°F) |
| | 17.5AH | (10hr, 1.75V/cell,25°C/77°F) |
| | 16.0AH | (5hr, 1.75V/cell,25°C/77°F) |
| | 14.5AH | (3hr, 1.70V/cell,25°C/77°F) |
| | 11.0AH | (1hr, 1.60V/cell,25°C/77°F) |
| Max. Discharge Current | 270A(5S) | |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Cycle Use | Charge Current Less Than 0.25CA | |
| | 14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C | |
| Floating Use | 13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C | |
| Capacity affected by Temperature | 40°C | 103% |
| | 25°C | 100% |
| | 0°C | 86% |
| | -15°C | 65% |
| Self-discharge | 3 month | Remaining capacity: 91% |
| | 6 month | Remaining capacity:82% |
| | 12month | Remaining capacity:65% |



Dimensions



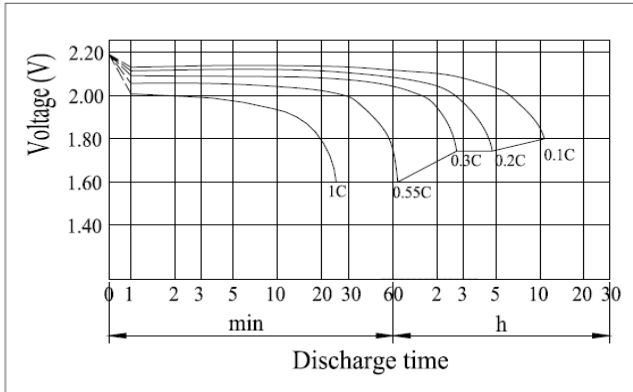
Constant Power Discharge at 25°C(77°F)

| F.V/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 10h | 20h |
|------------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.80V/cell | 125 | 86.6 | 71.1 | 42.6 | 24.4 | 13.1 | 10.8 | 8.27 | 7.15 | 5.71 | 3.46 | 1.78 |
| 1.75V/cell | 127 | 88.2 | 72.4 | 43.4 | 24.9 | 13.3 | 11.0 | 8.42 | 7.29 | 5.82 | 3.52 | 1.83 |
| 1.70V/cell | 131 | 90.8 | 74.6 | 44.7 | 25.6 | 13.8 | 11.3 | 8.67 | 7.50 | 5.99 | 3.63 | 1.88 |
| 1.67V/cell | 136 | 94.4 | 77.5 | 46.5 | 26.6 | 14.3 | 11.8 | 9.01 | 7.79 | 6.23 | 3.77 | 1.90 |
| 1.60V/cell | 141 | 97.6 | 79.9 | 47.1 | 27.1 | 14.4 | 12.1 | 9.11 | 8.02 | 6.38 | 3.98 | 1.91 |

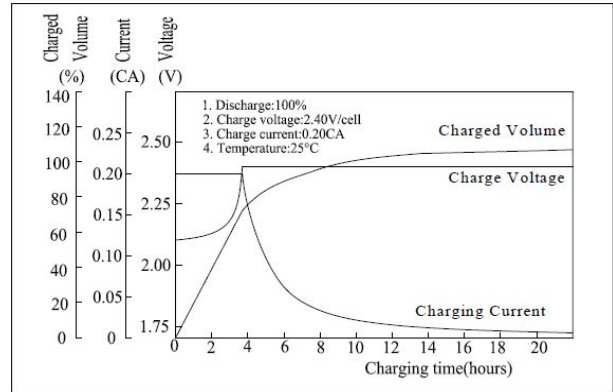
Constant Current Discharge at 25°C(77°F)

| F.V/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 10h | 20h |
|------------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.80V/cell | 63.9 | 44.4 | 36.5 | 21.9 | 12.5 | 6.72 | 5.55 | 4.24 | 3.67 | 2.93 | 1.77 | 0.93 |
| 1.75V/cell | 65.1 | 45.2 | 37.1 | 22.3 | 12.8 | 6.85 | 5.65 | 4.31 | 3.74 | 2.98 | 1.81 | 0.93 |
| 1.70V/cell | 67.1 | 46.6 | 38.3 | 22.9 | 13.1 | 7.05 | 5.82 | 4.45 | 3.84 | 3.07 | 1.82 | 0.94 |
| 1.67V/cell | 69.7 | 48.4 | 39.7 | 23.8 | 13.7 | 7.33 | 6.05 | 4.62 | 4.00 | 3.19 | 1.83 | 0.94 |
| 1.60V/cell | 71.6 | 50.1 | 41.0 | 24.2 | 14.0 | 7.43 | 6.19 | 4.78 | 4.22 | 3.38 | 1.84 | 0.95 |

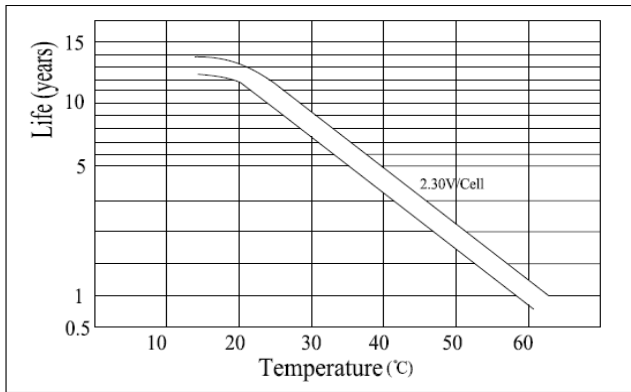
Discharge Characteristics



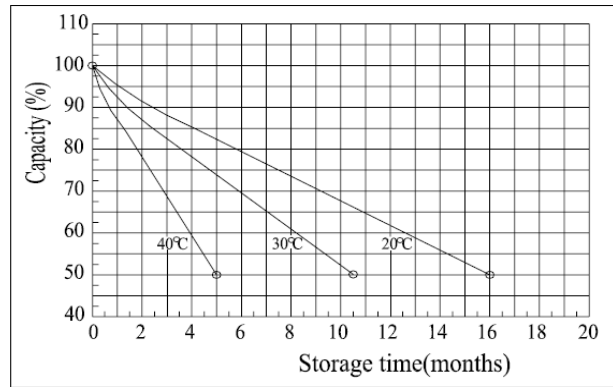
Float Charging Characteristics



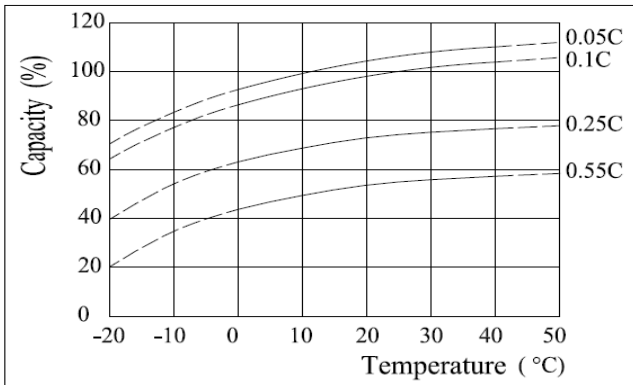
Floating Life on Temperature



Self Discharge Characteristics (25°C (77°F))



Temperature Effects in Relation to Battery Capacity



Cycle Life Relation to Depth of Discharge

