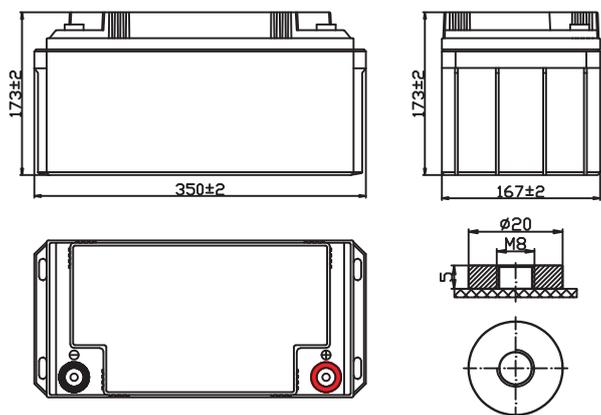


MODEL: OT65-12


Container Color
 Black C
 Grey 3 C

Parameter

| | | |
|--|-------------------------------|------------------------|
| Rated Voltage | 12V | |
| Nominal Capacity(25°C) | 65Ah(C ₁₀ , 10.8V) | |
| Dimension | Length | 350±2mm(13.78 inch) |
| | Width | 167±2mm(6.57 inch) |
| | Container Height | 173±2mm(6.81 inch) |
| | Total Height | 173±2mm(6.81 inch) |
| Weight±3% | 20.60Kg(45.42 lbs) | |
| Terminal | T3/M8 | |
| Container Material | ABS | |
| Rated Capacity(25°C) | 57.00Ah | (5HR, 11.40A, 10.5V) |
| | 50.40Ah | (3HR, 16.80A, 10.2V) |
| | 39.20Ah | (1HR, 39.20A, 9.6V) |
| Full charged Internal Resistance(25°C) | Approx. 6.5mΩ | |
| Operating Temp. Range | Discharge | -20°C~50°C(-4°F~122°F) |
| | Charge | -20°C~40°C(-4°F~104°F) |
| | Storage | -20°C~40°C(-4°F~104°F) |
| Nominal Operating Temp. Range | 25±3°C(77±5°F) | |
| Max. Charging Current(25°C) | 19.5A | |
| Charge Voltage(25°C) | Cycle | 14.5~14.9V |
| | Temp. Coefficient | -30mV/°C |
| | Float | 13.6~13.8V |
| Self Discharge(25°C) | Temp. Coefficient | -18mV/°C |
| | | ≤3% per month |
| Design service life(25°C) | 12 years | |

Plane Chart:


Unit:(mm)

Constant Current Discharge Characteristics (A, 25°C)

| F.V./Time | 5min | 10min | 15min | 20min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|-----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 9.60V | 203.5 | 143.3 | 110.2 | 90.0 | 67.1 | 39.2 | 23.7 | 17.1 | 14.0 | 11.7 | 8.15 | 6.76 | 3.60 |
| 10.02V | 194.5 | 138.6 | 107.8 | 87.8 | 65.6 | 38.2 | 23.5 | 16.9 | 13.8 | 11.6 | 8.10 | 6.70 | 3.55 |
| 10.20V | 189.7 | 136.3 | 106.2 | 86.1 | 64.4 | 37.5 | 23.4 | 16.8 | 13.7 | 11.5 | 8.03 | 6.66 | 3.50 |
| 10.50V | 173.6 | 128.9 | 103.2 | 83.6 | 63.1 | 36.6 | 23.2 | 16.6 | 13.5 | 11.4 | 7.95 | 6.60 | 3.45 |
| 10.80V | 157.6 | 120.7 | 100.2 | 81.0 | 61.2 | 35.5 | 22.9 | 16.4 | 13.2 | 11.3 | 7.85 | 6.52 | 3.40 |

Constant Current Discharge Characteristics (Watt, 25°C)

| F.V./Time | 5min | 10min | 15min | 20min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|-----------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 9.60V | 2136.8 | 1526.0 | 1210.4 | 988.4 | 753.5 | 445.9 | 274.5 | 200.1 | 165.2 | 138.8 | 97.0 | 80.7 | 43.2 |
| 10.02V | 2061.7 | 1490.0 | 1158.8 | 965.8 | 736.0 | 435.1 | 271.7 | 197.7 | 162.8 | 137.3 | 96.4 | 80.0 | 42.6 |
| 10.20V | 2048.8 | 1472.0 | 1168.2 | 947.0 | 723.4 | 427.8 | 271.0 | 196.6 | 161.7 | 136.4 | 95.6 | 79.5 | 42.1 |
| 10.50V | 1892.2 | 1405.0 | 1136.0 | 920.2 | 707.4 | 417.2 | 268.7 | 194.2 | 159.3 | 135.2 | 94.6 | 78.8 | 41.6 |
| 10.80V | 1733.6 | 1330.1 | 1104.2 | 892.6 | 687.4 | 404.8 | 265.3 | 191.9 | 155.8 | 134.1 | 93.4 | 77.8 | 41.0 |

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

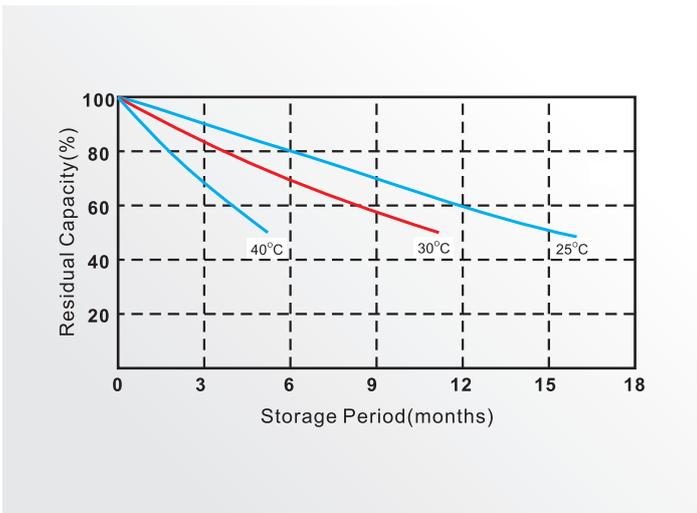
MODEL: OT65-12

Application scope

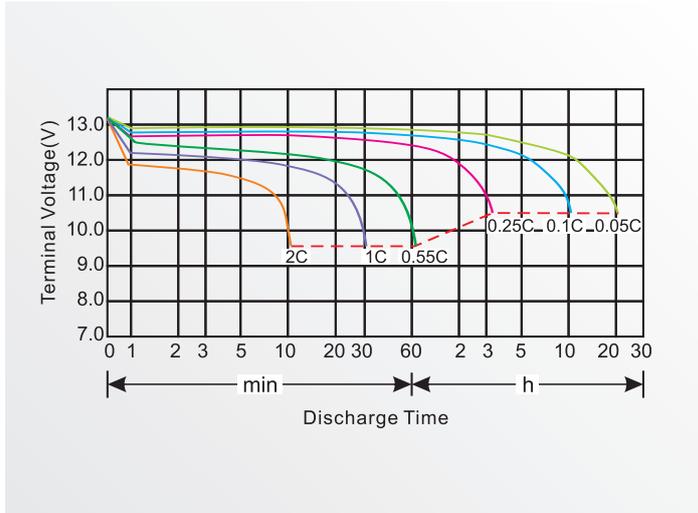
- Uninterruptable Power Supply(UPS)
- Industrial Process Control Facilities
- Data Network & Operation Centers
- Power supply system for electric tools
- Emergency Power Supply(EPS)
- Hospitals & Testing Laboratories
- Banks & Financial Markets
- Security alarm system



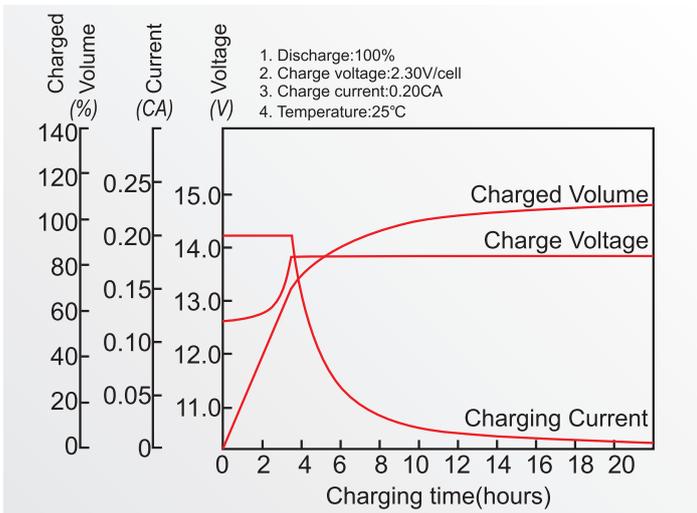
Residual Capacity



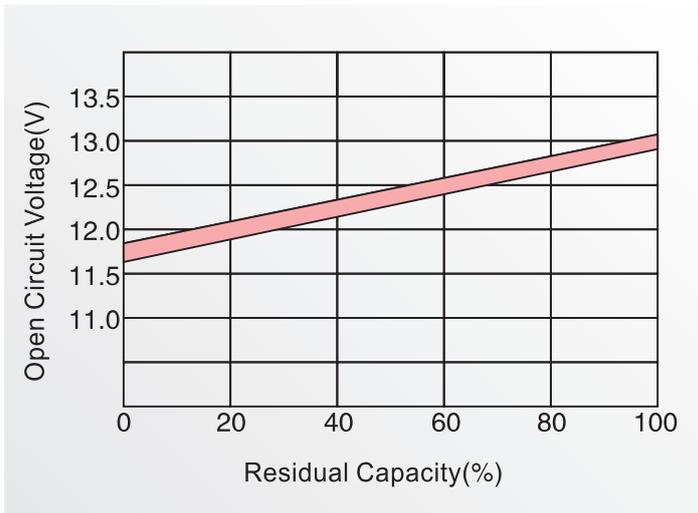
Discharge Current 25°C



Constant voltage charging characteristics



The relationship for OCV and Capacity 25°C



Capacity Factors With Different Temperature

| -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|-------|-------|-----|-----|------|------|------|------|------|------|
| 50% | 70% | 83% | 85% | 90% | 98% | 100% | 102% | 104% | 105% |

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

