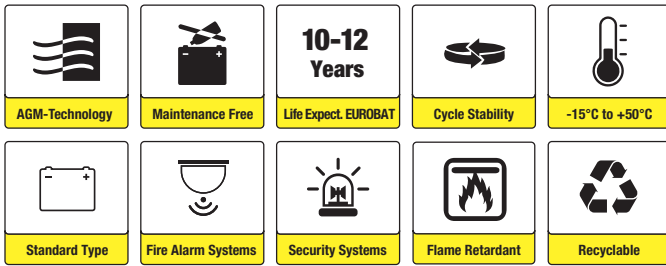




⊕⊖ sunbattery®

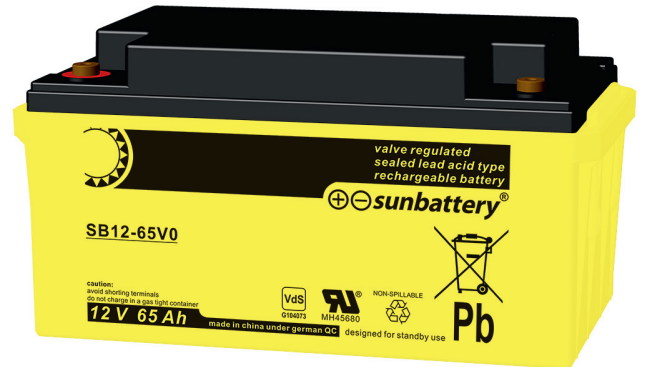
SB12-65V0 (12V65Ah)



Applications

- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Alarm and security system
- Communication power supply
- DC power supply

Certificates



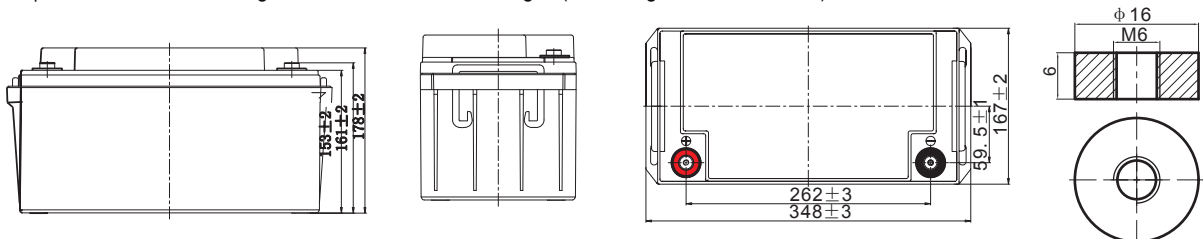
Specifications

| | | | |
|---|---|-----------------------------------|--|
| Nominal Voltage | 12V | Nominal Oper. Temp. R. | 25±3°C |
| Nominal Capacity | 65.0Ah (C ₁₀ , 1.80V/cell) | Cycle Use | Initial Charging Current less than 19.5A. Voltage 14.7V +1% at 25°C. Temperature Coefficient -30mV/°C. |
| Approx. Weight | 21.3kg | Standby Use | No limit on Initial Charging Current. Voltage 13.65V +1% at 25°C Temp. Coefficient -20mV/°C |
| Terminal | M6 | Capacity affected by Temp. | 40°C 103% 25°C 100% 0°C 86% |
| Container Material | ABS UL94 V0 | Self Discharge | SB batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Rated Capacity (25°C) | 65.0Ah/3.25A, 20hr, 1.80V/cell 65.0Ah/6.50A, 10hr, 1.80V/cell 59.0Ah/11.8A, 5hr, 1.75V/cell 54.0Ah/18.0A, 3hr, 1.75V/cell 41.4Ah/41.4A, 1hr, 1.60V/cell | Life Expectancy | 10-12 years according to EUROBAT |
| Max. Discharge Current | 780A (5s) | | |
| Internal Resistance / Impedance (1kHz) | Approx. 7.0mΩ | | |
| Operating Temp. Range | Discharge: -15~50°C Charge: 0~40°C Storage: -15~40°C | | |

Dimensions

■ M6 Terminal

Unit: mm | Dimensions: 348 Length X 167 Width X 178 Height (178 Height incl. Terminal)





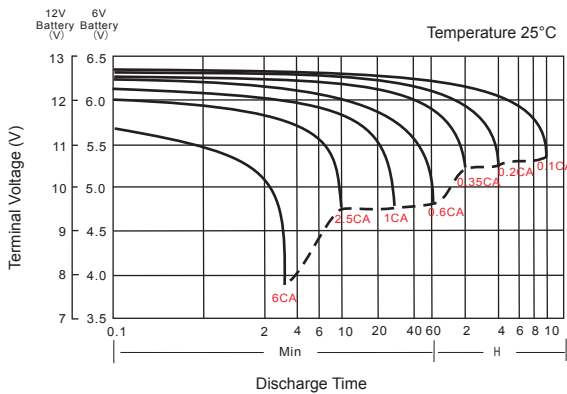
Constant Current Discharge (Amperes) at 25°C

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 96.2 | 83.4 | 65.6 | 58.6 | 42.9 | 36.3 | 22.1 | 16.2 | 12.7 | 11.1 | 9.74 | 7.49 | 6.21 | 3.20 |
| 1.80V/cell | 109.2 | 94.5 | 74.1 | 63.8 | 45.4 | 37.6 | 22.8 | 17.6 | 13.6 | 11.6 | 10.5 | 7.88 | 6.50 | 3.25 |
| 1.75V/cell | 118.4 | 102.3 | 80.0 | 65.1 | 47.1 | 39.5 | 24.1 | 18.0 | 13.8 | 11.8 | 10.5 | 7.92 | 6.57 | 3.30 |
| 1.70V/cell | 126.2 | 108.6 | 84.9 | 66.4 | 48.0 | 40.3 | 24.5 | 18.3 | 14.1 | 12.0 | 10.6 | 8.04 | 6.63 | 3.35 |
| 1.65V/cell | 130.2 | 111.8 | 87.2 | 67.4 | 48.7 | 40.8 | 24.9 | 18.5 | 14.3 | 12.3 | 10.7 | 8.16 | 6.71 | 3.40 |
| 1.60V/cell | 134.7 | 115.3 | 89.4 | 68.4 | 49.4 | 41.4 | 25.3 | 18.7 | 14.5 | 12.4 | 10.7 | 8.26 | 6.79 | 3.45 |

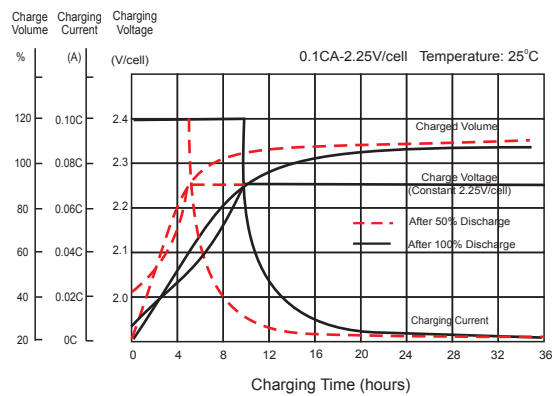
Constant Power Discharge (Watts/cell) at 25°C

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10 | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 180.9 | 157.9 | 124.7 | 112.0 | 82.4 | 70.2 | 43.0 | 31.7 | 25.0 | 21.8 | 19.3 | 14.9 | 12.3 | 6.56 |
| 1.80V/cell | 202.4 | 176.6 | 139.5 | 121.0 | 86.8 | 72.3 | 44.2 | 34.3 | 26.6 | 22.8 | 20.6 | 15.6 | 12.9 | 6.78 |
| 1.75V/cell | 216.0 | 188.5 | 148.9 | 122.5 | 89.4 | 75.6 | 46.4 | 34.8 | 27.0 | 23.1 | 20.7 | 15.6 | 13.0 | 6.84 |
| 1.70V/cell | 227.1 | 198.1 | 156.5 | 123.9 | 90.5 | 76.7 | 47.1 | 35.4 | 27.3 | 23.4 | 20.8 | 15.9 | 13.1 | 6.91 |
| 1.65V/cell | 230.7 | 201.4 | 159.1 | 124.8 | 91.3 | 77.4 | 47.6 | 35.6 | 27.7 | 23.8 | 20.8 | 16.0 | 13.3 | 6.99 |
| 1.60V/cell | 234.0 | 204.2 | 161.3 | 125.4 | 91.8 | 78.0 | 48.0 | 35.7 | 27.9 | 24.1 | 20.9 | 16.2 | 13.4 | 7.06 |

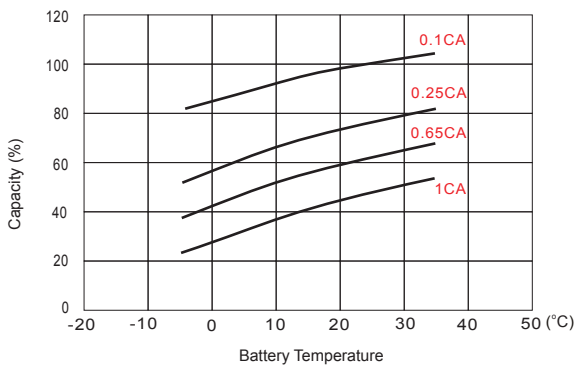
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

