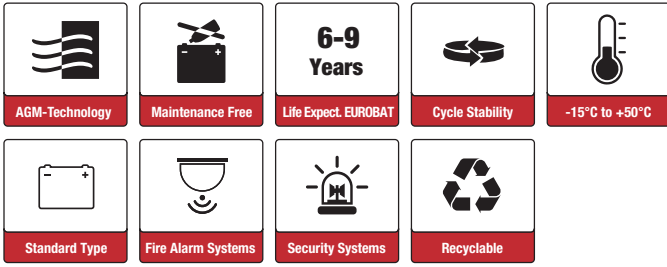




SB12-12L (12V12Ah)



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



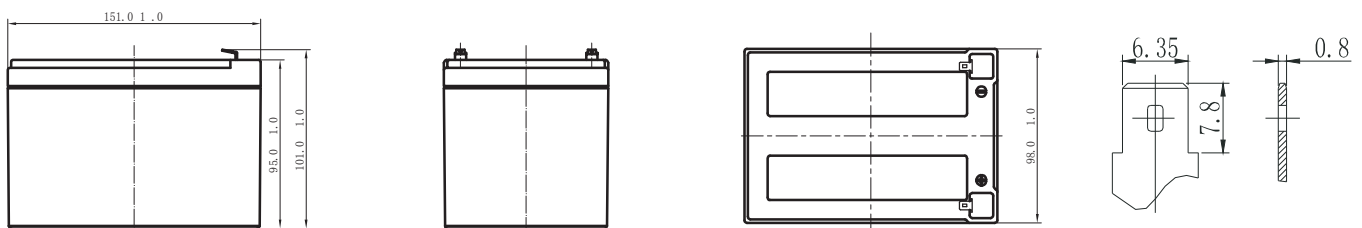
Specifications

| | | | |
|---|--|-----------------------------------|---|
| Nominal Voltage | 12V | Nominal Oper. Temp. R. | 20±3°C |
| Nominal Capacity | 12.0Ah (C ₂₀ , 10.5V) | Cycle Use | Initial Charging Current less than 4.8A. Voltage 14.55V +-1% at 20°C. Temperature Coefficient -30mV/°C. |
| Approx. Weight | 3.67kg | Standby Use | No limit on Initial Charging Current. Voltage 13.65V +-1% at 20°C. Temperature Coefficient -20mV/°C. |
| Terminal | T2 | Capacity affected by Temp. | 40°C 103% 25°C 100% 0°C 86% |
| Container Material | ABS UL94 HB | Self Discharge | SSB batteries may be stored for up to 6 months at 20°C and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Rated Capacity (20°C) | 12.0Ah/0.60A, 20hr, 10.5V 11.4Ah/1.14A, 10hr, 10.5V 10.25Ah/2.05A, 5hr, 10.5V 9.27Ah/3.09A, 3hr, 10.5V 8.14Ah/8.14A, 1hr, 9.6V | Life Expectancy | 6-9 years according to EUROBAT |
| Max. Discharge Current | 180A (5s) | | |
| Internal Resistance / Impedance (1kHz) | Approx. 19mΩ | | |
| Operating Temp. Range | Discharge: -20~50°C Charge: -10~50°C Storage: -20~50°C | | |

Dimensions

■ T2 Terminal

Unit: mm | Dimensions: 151 Length X 98Width X 95 Height (101 Height incl. Terminal)



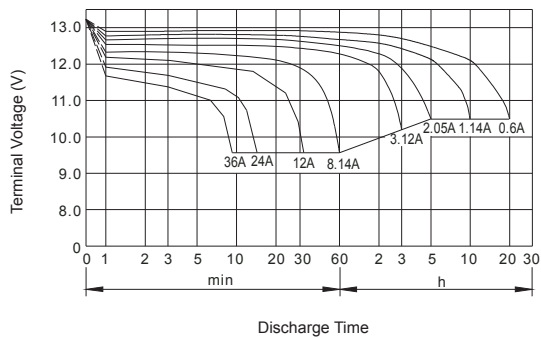
Constant Current Discharge (Amperes) at 20°C

| End Point | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V/cell | 46.4 | 31.7 | 24.8 | 13.8 | 8.14 | 3.18 | 2.12 | 1.18 | 0.61 |
| 1.65V/cell | 45.0 | 30.8 | 24.3 | 13.5 | 8.04 | 3.15 | 2.10 | 1.17 | 0.61 |
| 1.70V/cell | 43.5 | 29.9 | 23.7 | 13.3 | 7.94 | 3.12 | 2.07 | 1.16 | 0.61 |
| 1.75V/cell | 42.1 | 29.0 | 23.2 | 13.0 | 7.85 | 3.09 | 2.05 | 1.14 | 0.60 |
| 1.80V/cell | 40.6 | 28.2 | 22.6 | 12.7 | 7.75 | 3.06 | 2.02 | 1.12 | 0.59 |

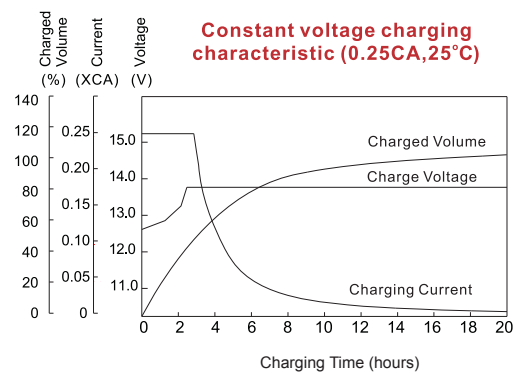
Constant Power Discharge (Watts/cell) at 20°C

| End Point | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V/cell | 86.2 | 58.7 | 46.7 | 27.0 | 20.6 | 16.1 | 8.50 | 6.50 | 4.20 |
| 1.65V/cell | 84.1 | 57.7 | 46.0 | 26.6 | 20.4 | 16.0 | 8.42 | 6.44 | 4.17 |
| 1.70V/cell | 81.9 | 56.6 | 45.3 | 26.2 | 20.1 | 15.8 | 8.33 | 6.37 | 4.14 |
| 1.75V/cell | 79.8 | 55.6 | 44.6 | 25.8 | 19.9 | 15.7 | 8.25 | 6.31 | 4.11 |
| 1.80V/cell | 77.6 | 54.6 | 43.9 | 25.4 | 19.6 | 15.5 | 8.16 | 6.24 | 4.08 |

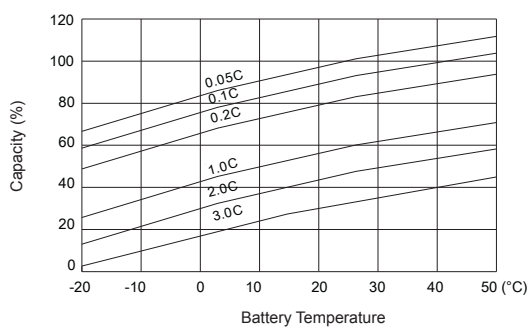
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

