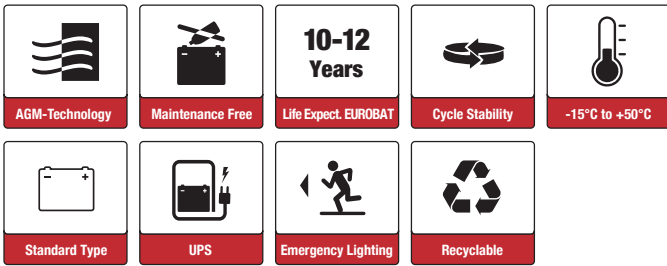




SBL12-12L ES (12V12Ah)

Item Nr.: SSB2037972



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

Conform to
IEC60896-21&22

Specifications

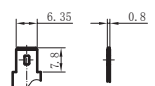
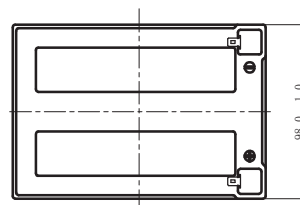
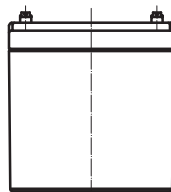
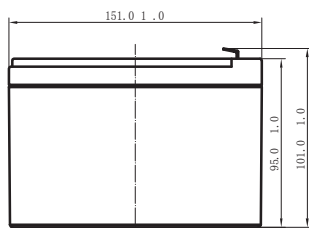
| | | | |
|---|---|------------------------------|--|
| Nominal Voltage | 12V | Operating Temp. Range | Discharge: -15~50°C |
| Nominal Capacity | 12Ah (C ₂₀ , 10.5V) | | Charge: -15~45°C |
| Approx. Weight | 3.67kg | | Storage: 5~30°C |
| Terminal | T2 | Float Charge | 2.277V/cell@20°C, 2.260V/cell @25°C |
| Container Material | ABS UL94 HB | | Charging Current: 0.1-0.3C |
| Rated Capacity (20°C) | 11.8Ah/0.59A, 20hr, 10.8V 11.40Ah/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 | Boost Charge | Temperature Coefficient: 3mV/cell/°C 2.367V/cell@20°C, 2.350V/cell@25°C |
| Max. Discharge Current | 180A (5s) | | Charging Current: 0.1-0.3C |
| Internal Resistance / Impedance (1kHz) | Approx. 19mΩ | Self Discharge | Temperature Coefficient: 3mV/cell/°C SSB batteries may be stored for up to 6 months at 20°C (self-discharge per month ≤3%) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Nominal Oper. Temp. R. | 20±2°C | Life Expectancy | 10-12 years according to EUROBAT (Long Life) |



Dimensions

■ T2 Terminal

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



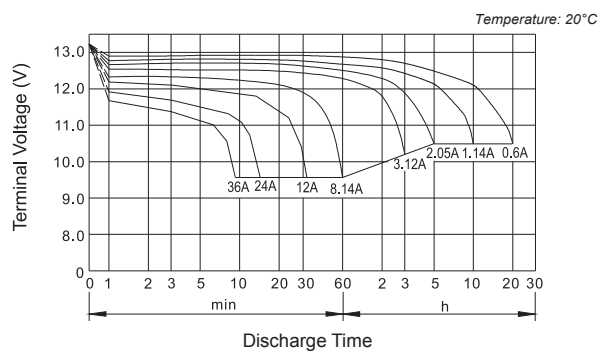
Constant Current Discharge (Amperes) at 20°C

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 10h | 20h |
|------------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V/cell | 46.4 | 31.7 | 24.8 | 13.8 | 10.6 | 8.14 | 4.51 | 3.18 | 2.12 | 1.18 | 0.61 |
| 1.65V/cell | 45.0 | 30.8 | 24.3 | 13.5 | 10.5 | 8.04 | 4.46 | 3.15 | 2.10 | 1.17 | 0.61 |
| 1.70V/cell | 43.5 | 29.9 | 23.7 | 13.3 | 10.3 | 7.94 | 4.41 | 3.12 | 2.07 | 1.16 | 0.61 |
| 1.75V/cell | 42.1 | 29.0 | 23.2 | 13.0 | 10.1 | 7.85 | 4.36 | 3.09 | 2.05 | 1.14 | 0.60 |
| 1.80V/cell | 40.6 | 28.2 | 22.6 | 12.7 | 10.0 | 7.75 | 4.31 | 3.06 | 2.02 | 1.12 | 0.59 |

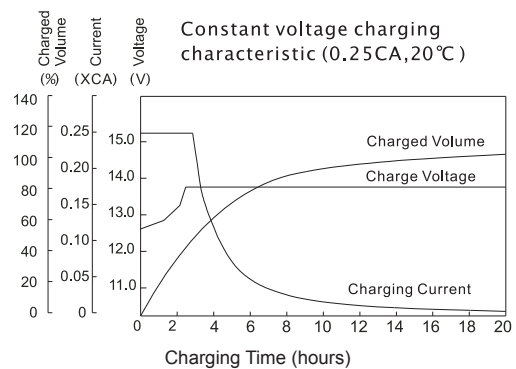
Constant Power Discharge (Watts/cell) at 20°C

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 10h | 20h |
|------------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V/cell | 86.2 | 58.7 | 46.7 | 27.0 | 20.6 | 16.1 | 8.50 | 6.50 | 4.20 | 2.12 | 1.11 |
| 1.65V/cell | 84.1 | 57.7 | 46.0 | 26.6 | 20.4 | 16.0 | 8.42 | 6.44 | 4.17 | 2.10 | 1.10 |
| 1.70V/cell | 81.9 | 56.6 | 45.3 | 26.2 | 20.1 | 15.8 | 8.33 | 6.37 | 4.14 | 2.08 | 1.09 |
| 1.75V/cell | 79.8 | 55.6 | 44.6 | 25.8 | 19.9 | 15.7 | 8.25 | 6.31 | 4.11 | 2.02 | 1.06 |
| 1.80V/cell | 77.6 | 54.6 | 43.9 | 25.4 | 19.6 | 15.5 | 8.16 | 6.24 | 4.08 | 2.04 | 1.07 |

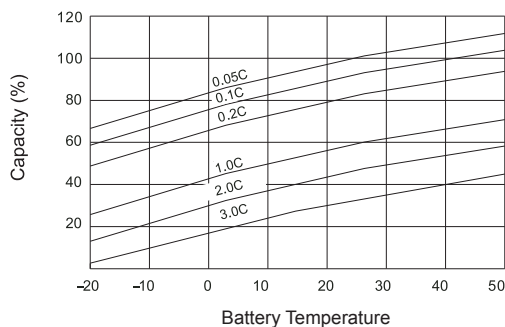
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

