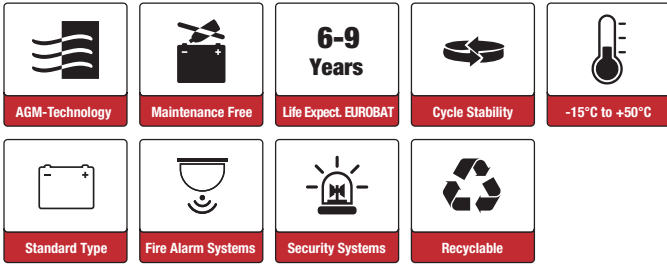




SB2.3-12 (12V2.3Ah)

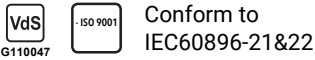


Applications

- 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



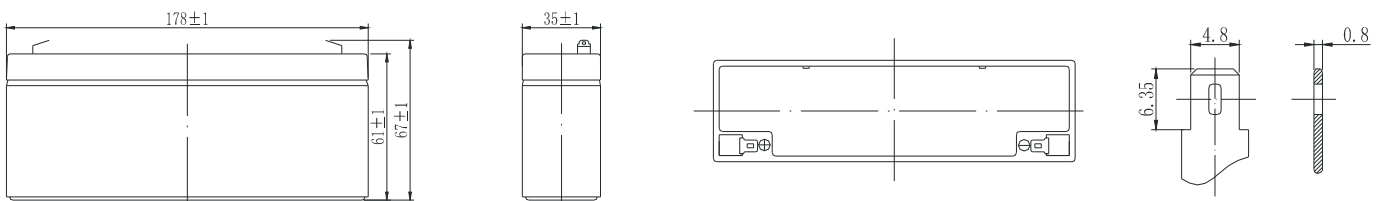
Specifications

| | | | |
|---|--|-----------------------------------|---|
| Nominal Voltage | 12V | Nominal Oper. Temp. R. | 20±3°C |
| Nominal Capacity | 2.3Ah (C ₂₀ 10.5V) | Cycle Use | Initial Charging Current less than 0.69A. Voltage 14.55V +-1% at 20°C. Temperature Coefficient -30mV/°C. |
| Approx. Weight | 0.92kg | Standby Use | Initial Charging Current less than 0.69A. Voltage 13.65V +-1% at 20°C. Temperature Coefficient -20mV/°C. |
| Terminal | T1 | 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) | 2.3Ah/0.115A, 20hr, 10.5V 2.1Ah/0.21A, 10hr, 10.5V 1.95Ah/0.39A, 5hr, 10.5V 1.74Ah/0.58A, 3hr, 10.5V 1.50Ah/1.50A, 1hr, 9.6V | Life Expectancy | 6-9 years according to EUROBAT |
| Max. Discharge Current | 34.5A (5s) | | |
| Internal Resistance / Impedance (1kHz) | Approx. 60mΩ | | |
| Operating Temp. Range | Discharge: -20~50°C Charge: -10~50°C Storage: -20~50°C | | |

Dimensions

■ T1 Terminal

Unit: mm | Dimensions: 178 Length X 35 Width X 61 Height (67 Height incl. Terminal)



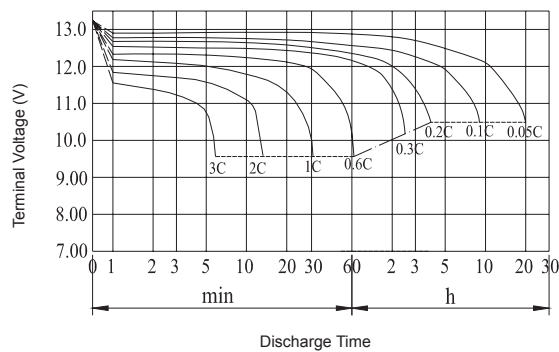
Constant Current Discharge (Amperes) at 20°C

| F.V/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|------|------|------|------|------|------|------|-------|
| 9.60V | 8.74 | 5.52 | 4.37 | 2.44 | 1.5 | 0.82 | 0.59 | 0.47 | 0.4 | 0.26 | 0.22 | 0.117 |
| 9.90V | 8.48 | 5.35 | 4.27 | 2.39 | 1.47 | 0.81 | 0.58 | 0.47 | 0.4 | 0.26 | 0.22 | 0.116 |
| 10.2V | 8.13 | 5.13 | 4.11 | 2.32 | 1.44 | 0.81 | 0.58 | 0.46 | 0.39 | 0.25 | 0.22 | 0.116 |
| 10.5V | 7.78 | 4.91 | 3.97 | 2.26 | 1.41 | 0.79 | 0.58 | 0.46 | 0.39 | 0.25 | 0.21 | 0.115 |
| 10.8V | 7.34 | 4.64 | 3.76 | 2.18 | 1.36 | 0.77 | 0.56 | 0.45 | 0.38 | 0.24 | 0.21 | 0.113 |

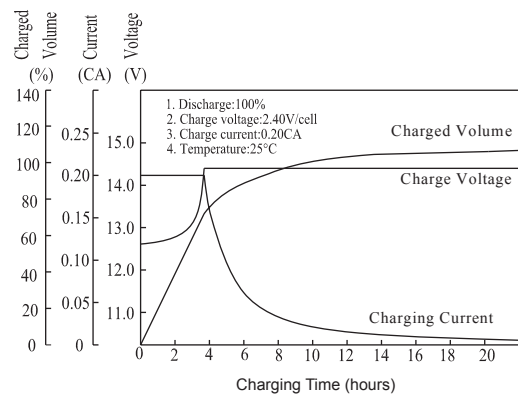
Constant Power Discharge (Watts/cell) at 20°C

| F.V/Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 8h | 10h | 20h |
|----------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 9.60V | 97.5 | 62.3 | 49.8 | 27.9 | 17.3 | 9.56 | 6.97 | 5.59 | 4.76 | 3.10 | 2.61 | 1.40 |
| 9.90V | 94.6 | 60.4 | 48.6 | 27.4 | 17.1 | 9.50 | 6.93 | 5.56 | 4.73 | 3.09 | 2.60 | 1.40 |
| 10.2V | 90.7 | 57.9 | 46.8 | 26.5 | 16.6 | 9.42 | 6.88 | 5.52 | 4.70 | 3.05 | 2.58 | 1.39 |
| 10.5V | 86.8 | 55.4 | 45.2 | 25.9 | 16.3 | 9.28 | 6.83 | 5.48 | 4.67 | 3.03 | 2.57 | 1.38 |
| 10.8V | 81.9 | 52.3 | 42.8 | 24.9 | 15.8 | 9.04 | 6.63 | 5.31 | 4.53 | 2.95 | 2.52 | 1.35 |

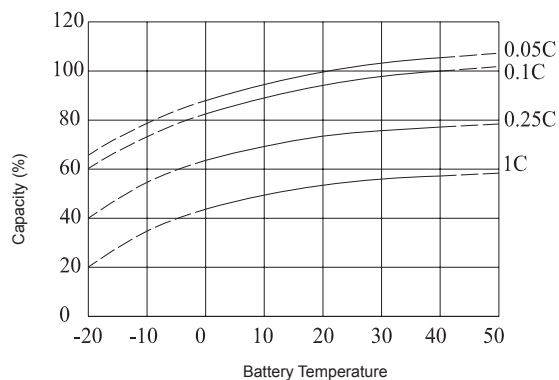
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

