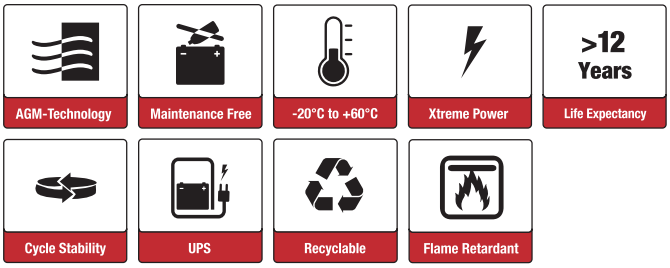



# SBL120-12HR V0 Xtreme (12V26Ah)

## Applications (for industrial standby use)

- 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

MH46465 · ISO9001 · ISO14001 · CE

Conform to IEC60896-21&22

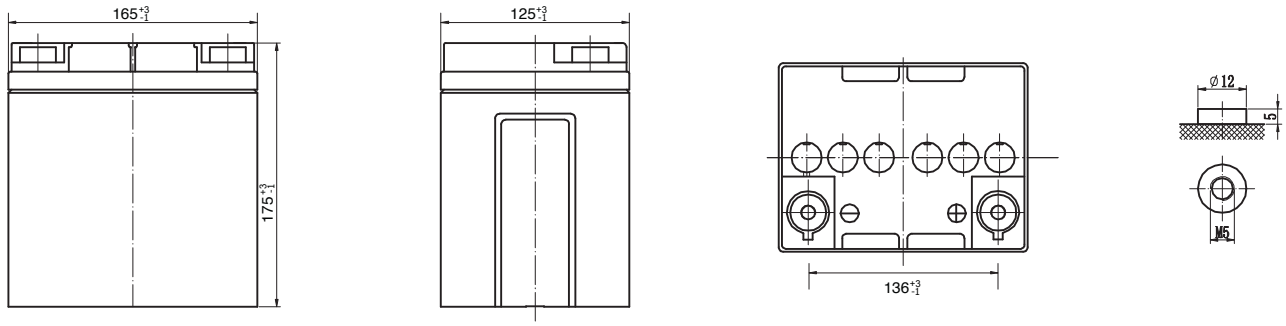
## Specifications

| | | |
|---|---|---|
| **Nominal Voltage** | 12V | |
| **Nominal Capacity** | 26Ah ($C_{10}$,1.8V/cell) | |
| **Approx. Weight** | 9.6kg | |
| **Terminal** | M5 | |
| **Container Material** | ABS UL94 V0 | |
| **Rated Capacity (20°C)** | 26Ah/2.6A, 10hr, 10.8V | |
| | 22.25Ah/4.45A, 5hr, 10.5V | |
| | 20.4Ah/6.80A, 3hr, 10.5V | |
| | 24.7Ah/24.7A, 1hr, 9.6V | |
| **Max. Discharge Current** | 350A (5s) | |
| **Internal Resistance / Impedance (1kHz)** | Approx. 8.0mΩ | |
| **Nominal Oper. Temp. R.** | 20±2°C | |
| **Operating Temp. Range** | Discharge: | -20~60°C |
| | Charge: | -10~45°C |
| | Storage: | -20~40°C |
| **Standby Use** | Initial Charging Current less than 8.4A. | |
| | Voltage 2.295 V/cell at 20°C. | |
| | Temperature Coefficient -20mV/°C. | |
| **Capacity affected by Temp.** | 30°C | 103% |
| | 20°C | 100% |
| | 0°C | 89% |
| **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. | |
| **Life Expectancy** | >12 years according to EUROBAT | |

## Dimensions

### M5 Terminal

Unit: mm | Dimensions: 165 Length X 125 Width X 175 Height (175 Height incl. Terminal)



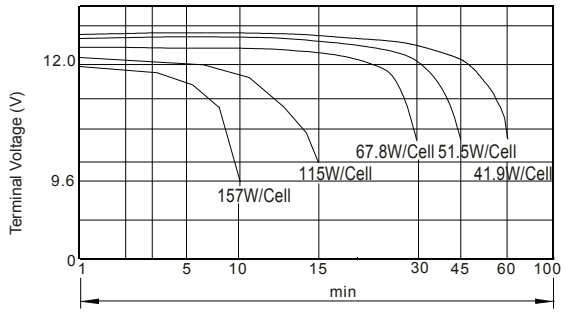
## Constant Current Discharge (Amperes) at 20°C

| End Voltage | 3min | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 3h | 5h | 8h | 10h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V/cell | 168 | 131 | 90.2 | 67.3 | 56.1 | 48.1 | 42.1 | 31.1 | 24.7 | 13.59 | 7.33 | 4.75 | 3.18 | 2.70 |
| 1.65V/cell | 158 | 125 | 86.2 | 64.8 | 54.0 | 46.3 | 40.7 | 30.0 | 23.9 | 13.21 | 7.12 | 4.65 | 3.11 | 2.68 |
| 1.67V/cell | 154 | 123 | 84.6 | 63.8 | 53.2 | 45.6 | 40.2 | 29.5 | 23.5 | 13.07 | 7.07 | 4.59 | 3.07 | 2.68 |
| 1.70V/cell | 148 | 116 | 78.5 | 60.3 | 50.3 | 43.1 | 38.3 | 28.0 | 22.5 | 12.91 | 6.99 | 4.54 | 3.04 | 2.65 |
| 1.75V/cell | 139 | 108 | 74.2 | 56.8 | 47.5 | 40.1 | 35.1 | 26.6 | 21.3 | 12.62 | 6.80 | 4.45 | 2.98 | 2.63 |
| 1.80V/cell | 127 | 103 | 71.1 | 54.8 | 45.6 | 39.4 | 35.0 | 25.7 | 20.8 | 12.29 | 6.61 | 4.34 | 2.91 | 2.60 |

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

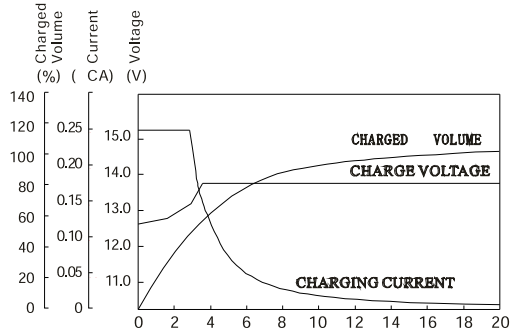
| End Point | 3min | 5min | 10min | 15min | 20min | 25min | 30min | 45min | 60min | 90min | 3h | 5h | 8h | 10h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V/cell | 325 | 240 | 157 | 118 | 99 | 85.8 | 75.2 | 56.6 | 45.7 | 26.75 | 15.71 | 10.12 | 6.69 | 5.54 |
| 1.65V/cell | 311 | 233 | 153 | 116 | 97 | 83.8 | 73.4 | 55.4 | 44.8 | 26.03 | 15.34 | 9.91 | 6.55 | 5.43 |
| 1.67V/cell | 306 | 230 | 152 | 115 | 96 | 83.0 | 72.7 | 54.9 | 44.4 | 25.67 | 15.13 | 9.80 | 6.48 | 5.38 |
| 1.70V/cell | 283 | 221 | 147 | 110 | 92 | 80.1 | 70.3 | 53.2 | 43.2 | 25.32 | 14.92 | 9.70 | 6.41 | 5.32 |
| 1.75V/cell | 267 | 210 | 140 | 106 | 90 | 77.3 | 67.8 | 51.5 | 41.9 | 24.61 | 14.54 | 9.49 | 6.27 | 5.21 |
| 1.80V/cell | 253 | 200 | 134 | 102 | 85 | 74.6 | 65.4 | 49.8 | 40.6 | 23.94 | 14.12 | 9.24 | 6.13 | 5.10 |

## Discharge Characteristics



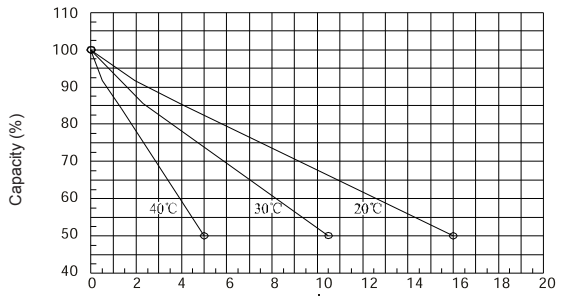

Discharge Time

## Float Charging Characteristics



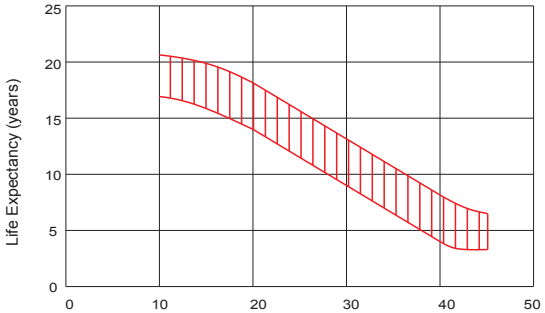

Charging Time (hours)

## Self-Discharge Characteristic




Storage Time (months)

## Effect of Temperature on Long Term Float Life




Battery Temperature