



# SBL134R-12i (12V134Ah)



## 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

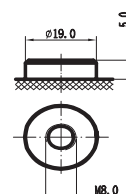
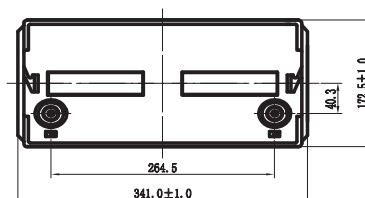
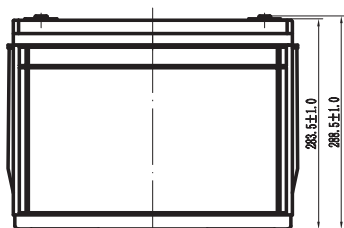
|                                               |                                   |                                   |                                                                                                                                                             |          |
|-----------------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Nominal Voltage</b>                        | 12V                               | <b>Operating Temp. Range</b>      | Discharge:                                                                                                                                                  | -20~50°C |
| <b>Nominal Capacity</b>                       | 134.0Ah (C <sub>10</sub> , 10.8V) |                                   | Charge:                                                                                                                                                     | -10~50°C |
| <b>Approx. Weight</b>                         | 40.0kg                            |                                   | Storage:                                                                                                                                                    | -20~50°C |
| <b>Terminal</b>                               | M8                                | <b>Standby Use</b>                | No limit on Initial Charging Current.                                                                                                                       |          |
| <b>Container Material</b>                     | ABS UL94 HB                       |                                   | Voltage 2.295 V/cell at 20° C.                                                                                                                              |          |
| <b>Rated Capacity (20°C)</b>                  | 134.0Ah/13.4A, 10hr, 10.8V        |                                   | Temperature Coefficient 3mV/cell/°C.                                                                                                                        |          |
|                                               | 132Ah/16.5A, 8hr, 10.5V           | <b>Capacity affected by Temp.</b> | 40°C                                                                                                                                                        | 103%     |
|                                               | 118.0Ah/23.6A, 5hr, 10.5V         |                                   | 25°C                                                                                                                                                        | 100%     |
|                                               | 108.3Ah/36.1A, 3hr, 10.5V         |                                   | 0°C                                                                                                                                                         | 86%      |
|                                               | 86.5Ah/86.5A, 1hr, 9.6V           | <b>Self Discharge</b>             | 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. |          |
| <b>Max. Discharge Current</b>                 | 950A (5s)                         | <b>Life Expectancy</b>            | 10-12 years according to EUROBAT                                                                                                                            |          |
| <b>Internal Resistance / Impedance (1kHz)</b> | Approx. 5.0mΩ                     |                                   |                                                                                                                                                             |          |
| <b>Nominal Oper. Temp. R.</b>                 | 20±3°C                            |                                   |                                                                                                                                                             |          |



## Dimensions

### ■ M8 Terminal

Unit: mm | Dimensions: 341 Length X 172.5 Width X 283 Height (288 Height incl. Terminal)



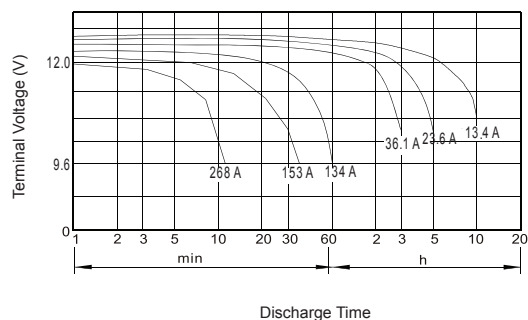
## Constant Current Discharge (Amperes) at 20°C

| End Point  | 10min | 15min | 30min | 45min | 1h   | 1.5h | 3h   | 5h   | 8h    | 10h  |
|------------|-------|-------|-------|-------|------|------|------|------|-------|------|
| 1.60V/cell | 314   | 248   | 147   | 107   | 86.5 | 65.5 | 38.2 | 25.6 | 16.81 | 13.6 |
| 1.65V/cell | 292   | 237   | 145   | 105   | 84.3 | 64   | 37.4 | 25.0 | 16.62 | 13.6 |
| 1.70V/cell | 280   | 231   | 142   | 102   | 82.1 | 62.4 | 36.8 | 24.3 | 16.38 | 13.5 |
| 1.75V/cell | 257   | 214   | 139   | 99.8  | 80.2 | 61   | 36.1 | 23.6 | 16.15 | 13.5 |
| 1.80V/cell | 235   | 197   | 134   | 96.7  | 78.0 | 59.5 | 35.2 | 23.0 | 15.86 | 13.4 |

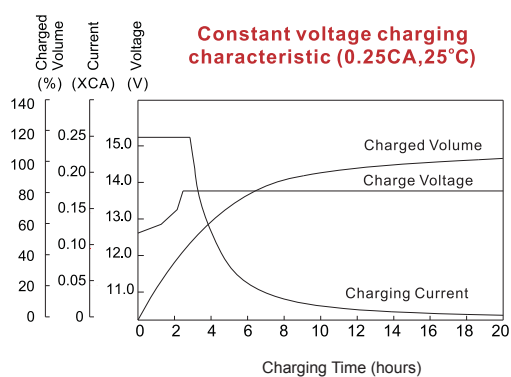
## Constant Power Discharge (Watts/cell) at 20°C

| End Point  | 10min | 15min | 30min | 45min | 1h  | 1.5h  | 2h   | 3h   | 5h   | 8h    |
|------------|-------|-------|-------|-------|-----|-------|------|------|------|-------|
| 1.60V/cell | 566   | 474   | 287   | 206   | 163 | 122.3 | 94.6 | 71.8 | 47.4 | 25.18 |
| 1.65V/cell | 529   | 433   | 261   | 200   | 158 | 118.8 | 92.2 | 70.3 | 47.0 | 24.96 |
| 1.70V/cell | 512   | 427   | 258   | 195   | 154 | 116.1 | 90.6 | 69.5 | 45.9 | 24.38 |
| 1.75V/cell | 483   | 414   | 254   | 192   | 152 | 114.7 | 89.5 | 68.6 | 44.8 | 23.8  |
| 1.80V/cell | 448   | 391   | 247   | 189   | 150 | 113.3 | 88.7 | 68.2 | 44.0 | 23.37 |

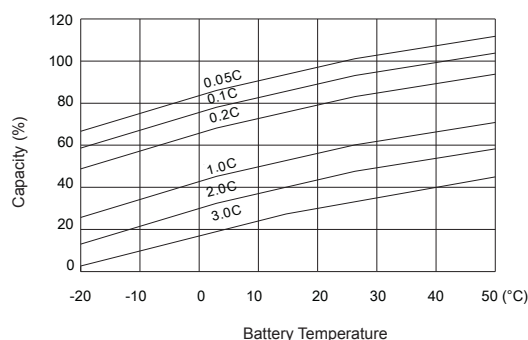
## Discharge Characteristics



## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life

