



SSB SBL 50-12HR (12V 227W)



| Specification | | |
|---|--|---------------|
| Nominal Voltage | 12V | |
| Nominal Capacity (10hr / 20°C / 1.80 V/C) | 227W | |
| | 20 hour rate | 40.0Ah |
| | 10 hour rate | 37.8Ah |
| Internal Resistance | Fully Charged battery 68°F(20°C) ≤7.5 mOhms | |
| Self-Discharge | 3% of capacity declined per month at 20°C (average) | |
| | SSB series batteries may be stored for up to 6 months at 68°F(20°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |
| Dimension | Length (mm / inch) | 198 / 7.80 |
| | Width (mm / inch) | 166 / 6.54 |
| | Height (mm / inch) | 169 / 6.65 |
| | Total Height (mm / inch) | 169 / 6.65 |
| Approx. Weight (Kg / lbs) | 13.0 / 28.7 | |
| Operating Temperature Range (temporarily – see our manual) | Discharge : -20~60°C | |
| | Charge : -0~50°C | |
| | Storage : -20~60°C | |
| Max. Discharge Current 68°F(20°C) | 400A(5s) | |
| Short Circuit Current | 1100A | |
| Charge Methods: Constant Voltage Charge 68°F(20°C) | Cycle use | 2.30-2.35VPC |
| | Maximum charging current | 0.96A |
| | Temperature compensation | -3mV/°C |
| | Standby use | 2.23-2.275VPC |
| Life expectancy | Temperature compensation | -4mV/°C |
| | 10~12 years at 20°C with charge voltage 2.25V/cell | |

Applications

- ◆ Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- ◆ Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- ◆ UL-recognized component.
- ◆ Can be mounted in any orientation.
- ◆ Computer designed lead, calcium tin alloy grid for high power density.
- ◆ Long service life, float or cyclic applications.
- ◆ Maintenance-free operation.
- ◆ Low self discharge.
- ◆ Case and cover available in both standard and flame retardant ABS.



Conform to:
IEC60896-21&22 and/or IEC61427

Discharge Constant Current (Amperes at 68°F20°C)

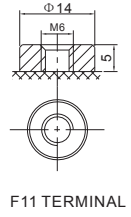
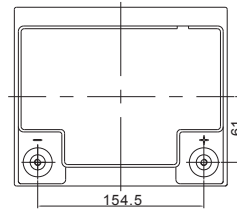
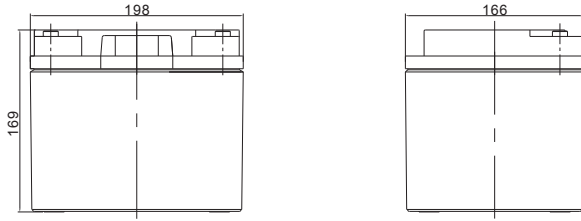
| End Point Volts/Cell | 5min | 8min | 10min | 15min | 20min | 30min | 60min | 90min |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 141.4 | 121.1 | 108.9 | 86.5 | 69.5 | 50.9 | 29.3 | 21.7 |
| 1.65V | 130.8 | 113.6 | 102.2 | 82.0 | 64.8 | 48.6 | 27.9 | 20.7 |
| 1.70V | 125.4 | 109.6 | 98.5 | 79.5 | 62.4 | 47.2 | 27.1 | 20.0 |
| 1.75V | 118.4 | 104.1 | 92.5 | 75.8 | 60.6 | 45.9 | 26.7 | 19.6 |
| 1.80V | 111.4 | 98.6 | 86.4 | 72.0 | 58.9 | 44.5 | 26.1 | 19.1 |
| 1.85V | 104.0 | 92.7 | 80.1 | 67.9 | 56.8 | 42.8 | 25.5 | 18.5 |

Discharge Constant Current (Watts at 68°F20°C)

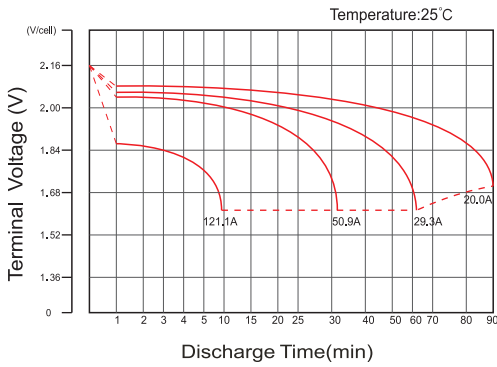
| End Point Volts/Cell | 5min | 8min | 10min | 15min | 20min | 30min | 60min | 90min |
|----------------------|------|------|-------|-------|-------|-------|-------|-------|
| 1.60V | 252 | 219 | 198 | 158 | 128 | 93.8 | 54.2 | 40.3 |
| 1.65V | 236 | 208 | 188 | 152 | 120 | 90.3 | 52.1 | 38.7 |
| 1.70V | 229 | 203 | 183 | 149 | 117 | 88.8 | 51.2 | 38.0 |
| 1.75V | 219 | 195 | 174 | 144 | 115 | 87.4 | 51.0 | 37.6 |
| 1.80V | 209 | 187 | 165 | 138 | 114 | 85.9 | 50.7 | 37.2 |
| 1.85V | 199 | 180 | 156 | 133 | 112 | 84.5 | 50.5 | 36.9 |



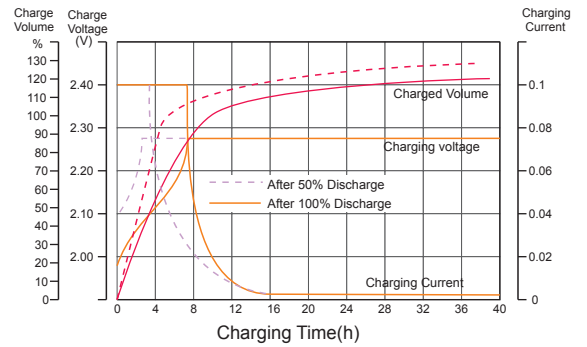
Dimensions



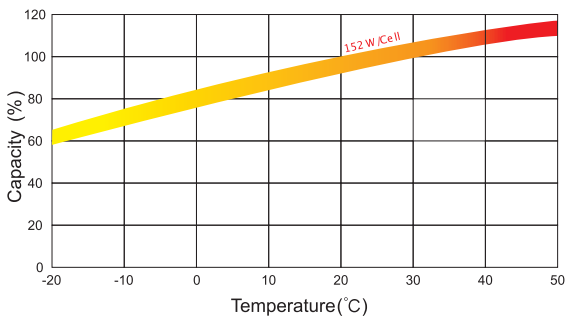
Discharge Characteristics



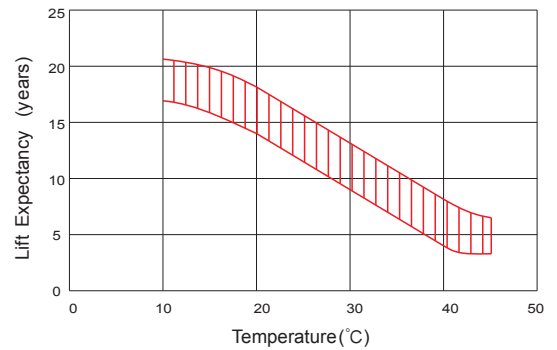
Float Charging Characteristics



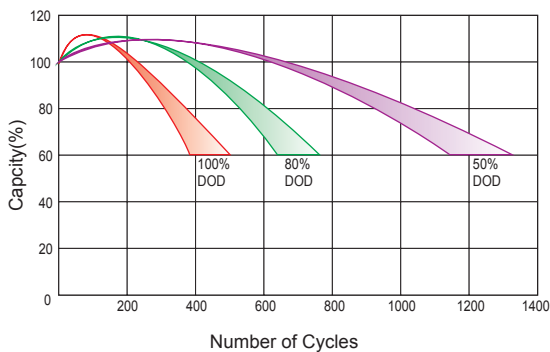
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

