# SSB SBL 150-12i (12V 150AH)

## Specification

| | | |
|---|---|---|
| Nominal Voltage | 12V | |
| Nominal Capacity (10hr / 20°C / 1.80 V/C) | 10 hour rate (15.0A, 10.8V) | 150.0Ah |
| | 5 hour rate (24.5A, 10.5V) | 122.5Ah |
| | 1 hour rate (103.0A, 9.6V) | 103.0Ah |
| Internal Resistance | Fully Charged battery 68°F(20°C) | ≤3.5 mOhms |
| Self-Discharge | 3% of capacity declined per month at 20°C (average)<br>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) | 482 / 19.0 |
| | Width (mm / inch) | 170 / 6.69 |
| | Height (mm / inch | 240 / 9.45 |
| | Total Height (mm / inch) | 240 / 9.45 |
| Approx. Weight (Kg / lbs) | 44.8 / 98.8 | |
| Operating Temperature Range (temporarily – see our manual) | Discharge : -20~50°C<br>Charge : -10~50°C<br>Storage : -20~50°C | |
| Max. Discharge Current 68°F(20°C) | 970A(5s) | |
| Short Circuit Current | 2800A | |
| Charge Methods: Constant Voltage Charge 68°F(20°C) | Cycle use | 2.40-2.45VPC |
| | Maximum charging current | 40.0A |
| | Temperature compensation | -30mV/°C |
| | Standby use | 2.20-2.28VPC |
| | Temperature compensation | -20mV/°C |
| Life expectancy | 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.*

ISO14001 | intertek ETL SEMKO

ISO9001

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

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

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 3h | 5h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|
| 1.60V | - | - | 186 | - | 103 | 42.9 | 27.6 | 15.4 | 8.07 |
| 1.65V | - | - | 177 | - | 98.7 | 41.1 | 26.4 | 15.3 | 8.03 |
| 1.70V | - | - | 167 | - | 94.1 | 39.3 | 25.3 | 15.2 | 7.98 |
| 1.75V | - | - | 158 | - | 89.2 | 37.4 | 24.5 | 15.1 | 7.93 |
| 1.80V | - | - | 153 | - | 87.2 | 36.7 | 23.7 | 15.0 | 7.88 |

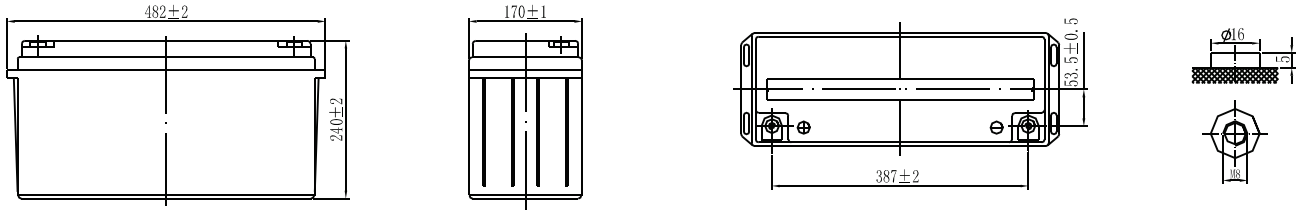
## Discharge Constant Current (Watts at 68°F20°C)

| End Point Volts/Cell | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 10h |
|---|---|---|---|---|---|---|---|---|---|
| 1.60V | - | - | 329 | 241 | 186 | 109 | 79.2 | 53.7 | - |
| 1.65V | - | - | 318 | 234 | 182 | 107 | 77.2 | 52.4 | - |
| 1.70V | - | - | 308 | 227 | 178 | 104 | 75.2 | 51.0 | - |
| 1.75V | - | - | 297 | 220 | 174 | 101 | 73.3 | 50.0 | - |
| 1.80V | - | - | 286 | 212 | 170 | 97.6 | 71.3 | 48.8 | - |

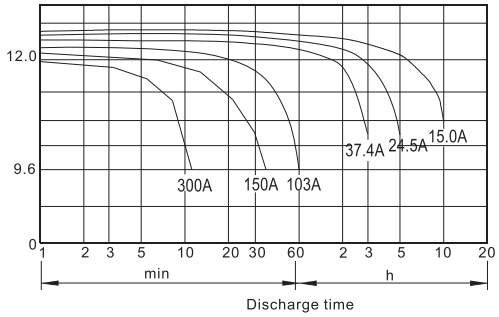


Updated: 13.02.2019

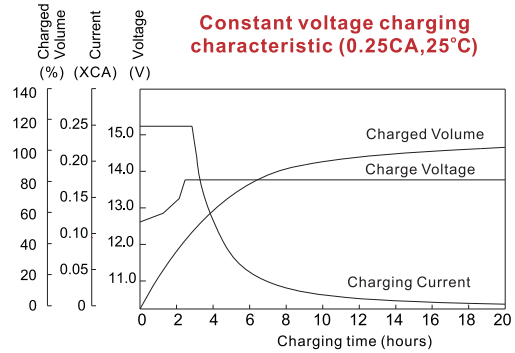
## Dimensions



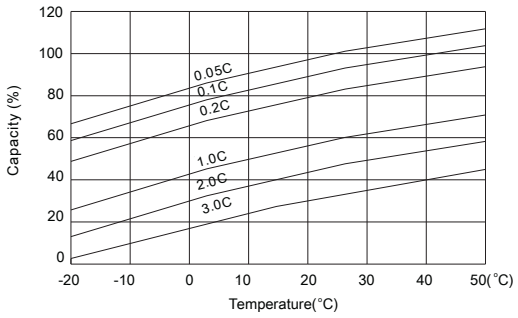

## Discharge Characteristics



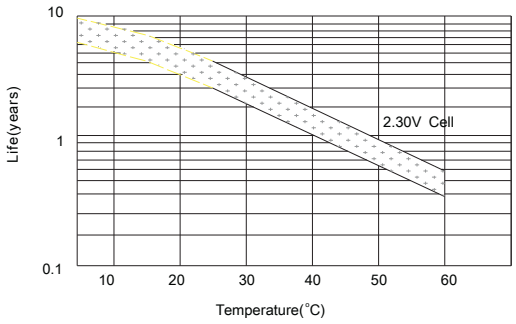

## Float Charging Characteristics



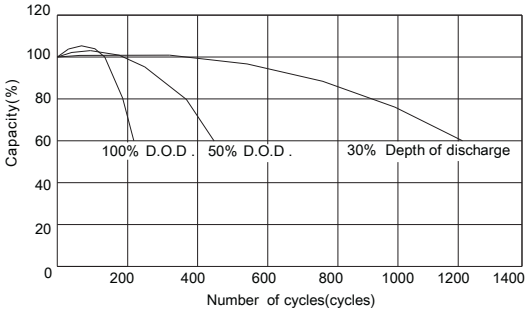

## Temperature Effects in Relation to Battery Capacity



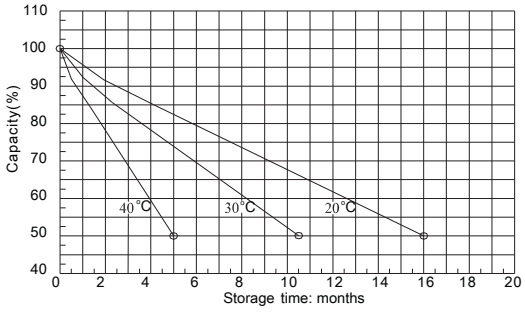

## Effect of Temperature on Long Term Float Life




## Cycle Life in Relation to Depth of Discharge




## Self Discharge Characteristics




**A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

**B** Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

**C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.