

# STBLD SERIE BATTERIE - GEL

## STBLD - 12 - 200- GEL (12V - 200 A)

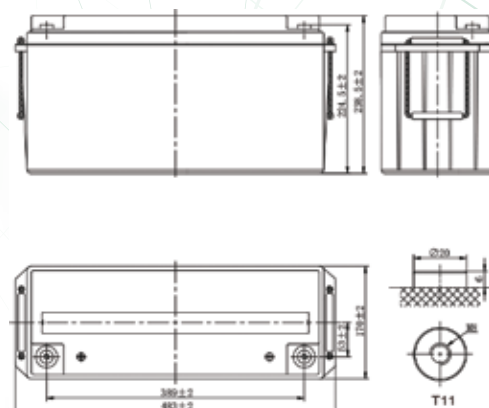


### Specifications

|                               |   |                                |
|-------------------------------|---|--------------------------------|
| Rated Voltage                 | 12V   |                                |
| Nominal Capacity              | 200Ah   | (C <sub>20</sub> , 1.75V/cell) |
| Dimension                     | Length  | 522±2mm (20.6 inches)          |
|                               | Width   | 240±2mm (9.45 inches)          |
|                               | Container Height  | 218±2mm (8.58 inches)          |
|                               | Total Height  | 224±2mm (8.82 inches)          |
| Approx Weight                 | 60.9 Kg (134.3 lbs)   |                                |
| Terminal                      | T11(M8)   |                                |
| Container Material            | ABS   |                                |
| Rated Capacity (25°C)         | 215.0Ah   | (100hr, 2.15A, 1.80V/cell)     |
|                               | 212.4Ah   | (72hr, 2.95A, 1.80V/cell)      |
|                               | 200.0Ah   | (20hr, 10.0A, 1.75V/cell)      |
|                               | 182.0Ah   | (10hr, 18.2A, 1.80V/cell)      |
|                               | 120.2Ah   | (1hr, 120.2A, 1.75V/cell)      |
| Max. Discharge Current        | 1820A (5s)  |                                |
| Internal Resistance (25°C)    | Approx 3.2mΩ  |                                |
| Operating Temp. Range         | Discharge : -20 - 55°C (-4 - 131°F)   |                                |
|                               | Charge : 0 - 40°C (32 - 104°F)  |                                |
|                               | Storage : -20 - 50°C (-4 - 122°F)   |                                |
| Nominal Operating Temp. Range | 25±3°C (77±5°F)   |                                |
| Cycle Use                     | Initial Charging Current less than 50.0A. Voltage 14.1V-14.4V at 25°C(77°F)Temp. Coefficient -30mV/°C   |                                |
|                               | Standby Use   |                                |
| Effect of temp. to Capacity   | 40°C (104°F)  | 103%                           |
|                               | 25°C (77°F)   | 100%                           |
|                               | 0°C (32°F)  | 86%                            |
| Self Discharge                | STBLDseries batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |                                |



### Layout



### Constant current Discharge (Amperes) at 25°C (77°)

| F.V/Time   | 1h    | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  | 48h  | 72h  | 100h |
|------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 1.90V/cell | 88.5  | 55.8 | 42.6 | 34.9 | 29.4 | 25.3 | 19.7 | 16.2 | 8.68 | 3.87 | 2.63 | 1.90 |
| 1.85V/cell | 105.8 | 62.5 | 46.8 | 38.0 | 32.0 | 27.6 | 21.5 | 17.7 | 9.52 | 4.18 | 2.85 | 2.08 |
| 1.80V/cell | 114.4 | 65.9 | 49.0 | 39.4 | 33.1 | 28.4 | 22.2 | 18.2 | 9.76 | 4.31 | 2.95 | 2.15 |
| 1.75V/cell | 120.2 | 68.8 | 50.6 | 40.6 | 33.8 | 29.0 | 22.6 | 18.6 | 10.0 | 4.38 | 2.99 | 2.19 |

### Constant current Discharge (Amperes) at 25°C (77°)

| F.V/Time   | 1h    | 2h    | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  | 48h  | 72h  | 100h |
|------------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.90V/cell | 173.3 | 110.0 | 84.7 | 69.5 | 59.0 | 50.8 | 39.5 | 32.4 | 17.3 | 7.74 | 5.25 | 3.80 |
| 1.85V/cell | 205.1 | 122.1 | 92.1 | 75.1 | 63.7 | 54.8 | 42.8 | 35.3 | 19.0 | 8.37 | 5.71 | 4.18 |
| 1.80V/cell | 219.6 | 127.7 | 96.0 | 75.5 | 65.5 | 56.3 | 44.1 | 36.2 | 19.5 | 8.60 | 5.89 | 4.30 |
| 1.75V/cell | 230.0 | 132.8 | 98.8 | 79.5 | 66.6 | 57.3 | 44.7 | 36.8 | 19.9 | 8.76 | 5.98 | 4.38 |



# STBLD SERIE BATTERIE – GEL

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# SENLECH

Solar Energy and Technologies

### Applications

- Solar energy (wind energy) household system /communication / communication base station;
- Movable energy storage system;
- Solar traffic lights;
- Solar, wind and solar power generation;
- Emergency lighting system.

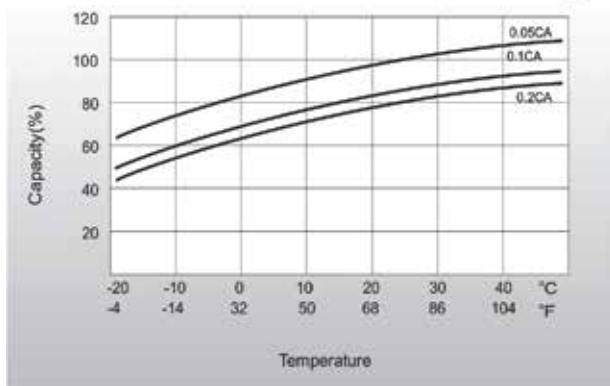
### General features

- Adopted advantage AGM-GEL technology
- Operation temperature -20~55°C
- ≤3% Self discharge per month
- Fast recharge

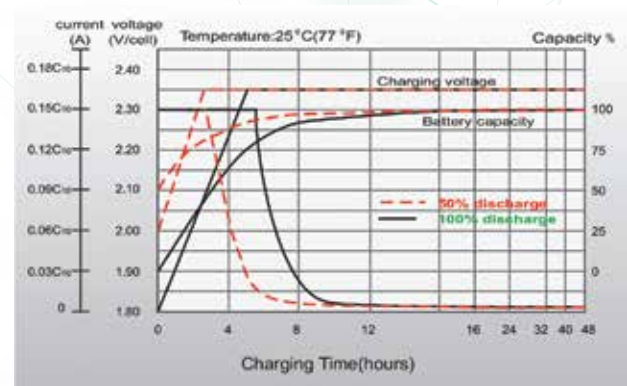
### Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- IATF16949, ISO 9001, 14001 and ISO 45001 certified production facilities

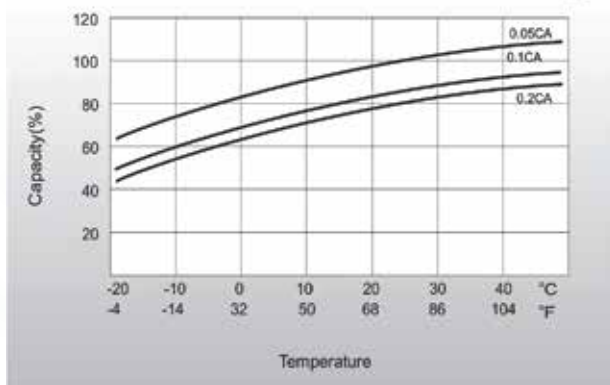
### Temperature Effects in Rzlation to Battery capacity



### Charging Charateristics



### Cycle life in Relation to Depth of Discharge



### Self Discharge Characteristics

