



#### SL Series

BOSFA POWER SL(Long Service Life)Series batteries utilizes thick grids of modern technology are adopted so as to guarantee the design life up to 12 years. Advanced micro porous absorbed glass matt separator - minimizes diffusion of oxygen into the separator, reducing float charge current which suppressed the corrosion rate of the positive grid and extends the life of the battery.

#### Application

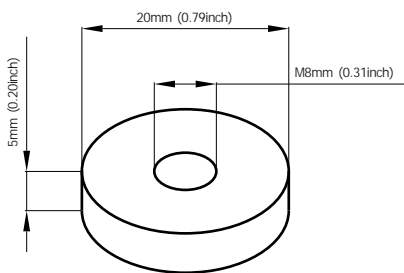
- Cable Television
- Communication Equipment
- Security System
- UPS
- Control Equipment
- Medical Equipment
- Emergency Power System

#### General Features

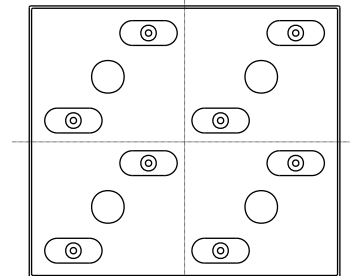
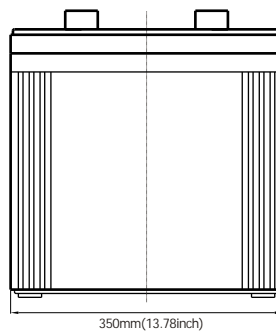
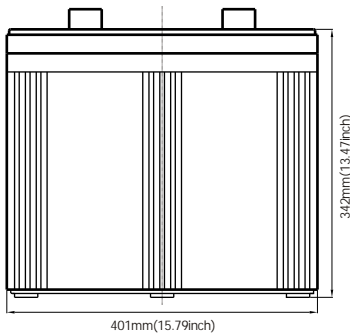
- Extra long life service design (up to 15 years) for 2V models.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

#### Construction

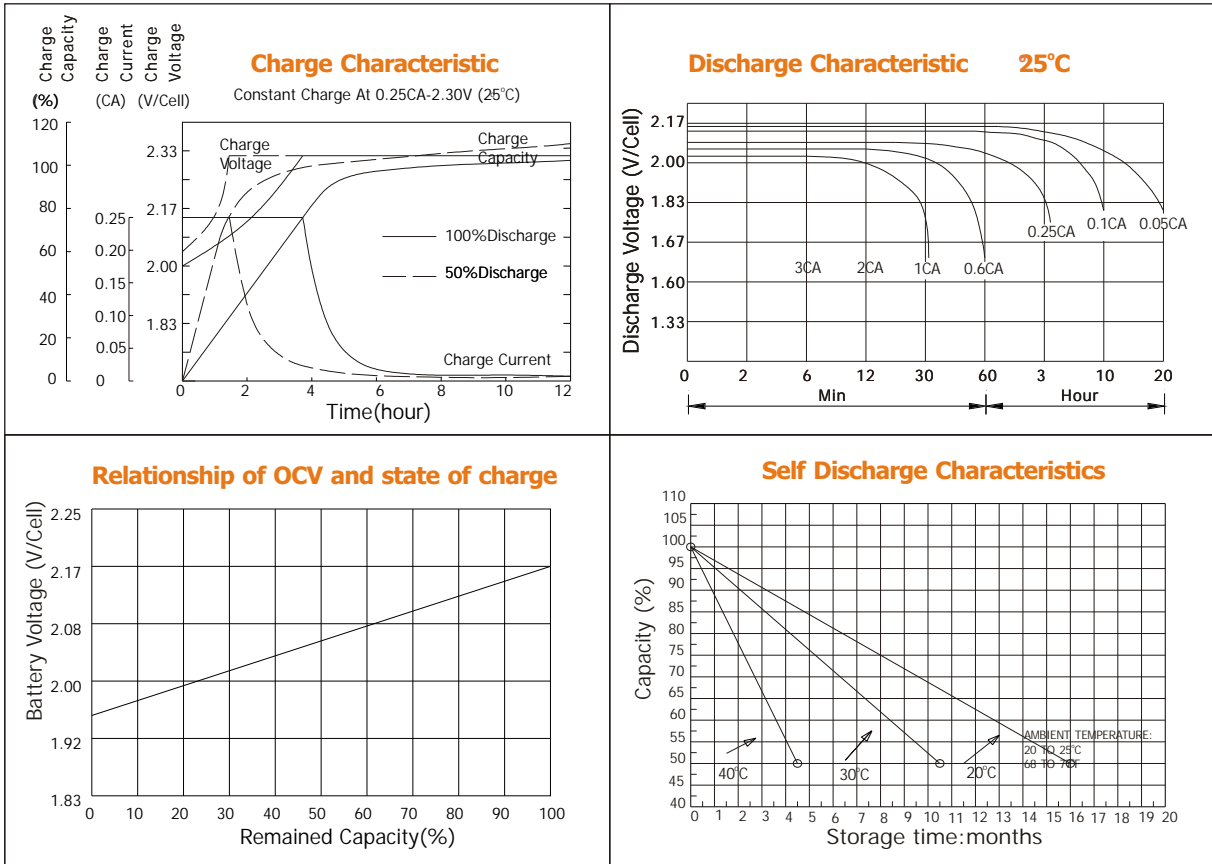
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve .....EPDR
- Terminal .....Copper
- Separator .....Fiber glass
- Electrolyte .....Sulfuric acid



**Terminal Dimensions**



|                                  |   |                  |                        |                  |
|----------------------------------|---|------------------|------------------------|------------------|
| Battery Model                    | SL 2-1500                                   |                  |                        |                  |
| Designed Floating Life           | 15 Years                                    |                  |                        |                  |
| Capacity(25°C)                   | 20HR(77A,1.75V)                             | 10HR(150A,1.75V) | 5HR(270A,1.75V)        | 1HR(960A,1.75V)  |
|                                  | 1540AH                                      | 1500AH           | 1350AH                 | 960AH            |
| Dimensions                       | Length                                      | Width            | Height                 | Total Height     |
|                                  | 401mm(15.79inch)                            | 350mm(13.78inch) | 342mm(13.47inch)       | 378mm(14.88inch) |
| Approx. Weight                   | 100Kg (221 lbs)                             |                  |                        |                  |
| Internal Resistance              | Full charged at 25°C: 0.00053 Ohm           |                  |                        |                  |
| Self Discharge                   | 3% of capacity declined per month at (25°C) |                  |                        |                  |
| Capacity Affected by Temp.(20HR) | 40°C  | 25°C             | 0°C                    | -15°C            |
|                                  | 102%  | 100%             | 85%                    | 65%              |
| Charge Voltage(25°C)             | Cycle use                                   |                  | Float use              |                  |
|                                  | 2.3V-2.35V(-5mV/ °C), max. Current: 375A    |                  | 2.25-2.27V(-3.3mV/ °C) |                  |



#### Constant current discharge ratings-amperes at 25°C

| F. V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR | 5HR | 10HR  | 20HR |
|-----------|------|-------|-------|-------|------|-----|-----|-------|------|
| 1.60V     | 4050 | 3150  | 2550  | 1635  | 1035 | 472 | 308 | 159.0 | 80.6 |
| 1.67V     | 3600 | 2910  | 2395  | 1590  | 1020 | 457 | 292 | 159.0 | 80.6 |
| 1.70V     | 3300 | 2700  | 2250  | 1515  | 975  | 435 | 278 | 156.0 | 80.3 |
| 1.75V     | 3030 | 2500  | 2128  | 1471  | 959  | 411 | 275 | 156.0 | 80.3 |
| 1.80V     | 2680 | 2273  | 1948  | 1415  | 909  | 405 | 268 | 150.0 | 80.0 |
| 1.85V     | 1980 | 1768  | 1597  | 1155  | 742  | 375 | 246 | 148.0 | 79.8 |

#### Constant power discharge ratings-watts at 25°C

| F. V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR | 5HR | 10HR  | 20HR  |
|-----------|------|-------|-------|-------|------|-----|-----|-------|-------|
| 1.60V     | 5720 | 4304  | 2876  | 2251  | 1470 | 720 | 528 | 290.0 | 145.0 |
| 1.67V     | 5392 | 4055  | 2721  | 2139  | 1408 | 684 | 519 | 286.0 | 143.0 |
| 1.70V     | 5054 | 3803  | 2563  | 2023  | 1343 | 659 | 507 | 279.0 | 140.0 |
| 1.75V     | 4722 | 3552  | 2404  | 1906  | 1276 | 632 | 492 | 271.0 | 136.0 |
| 1.80V     | 4390 | 3302  | 2244  | 1786  | 1206 | 608 | 468 | 257.0 | 129.0 |
| 1.85V     | 4056 | 3052  | 2080  | 1666  | 1136 | 576 | 444 | 243.0 | 122.0 |



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