

## Solar Series SLA Battery

## Solar Series

Bosfa Solar Series Valve-regulated Lead Acid batteries use particular alloy and material technology design to ensure a excellent performance in various environments, especially high and low temp. Bosfa Solar series batteries is optimal for storage and conversion of photovoltaic energy and wind energy.

## Application

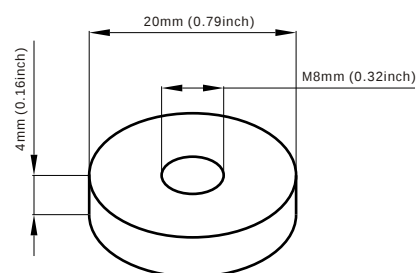
Photovoltaic system  
Alternative Energy System  
Electric Utility  
Outdoor control Equipment  
Railroad Utility

## General Features

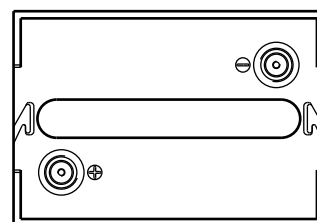
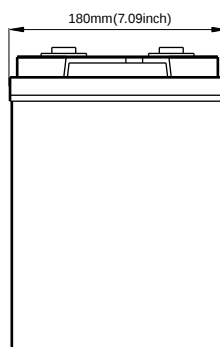
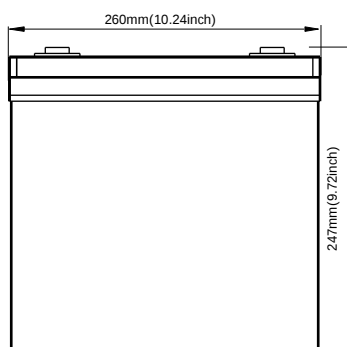
Sealed and maintenance free operation.  
Non-Spillable construction design.  
ABS containers and covers(UL94HB, UL94V-0) optional.  
Safety valve installation for explosion proof.  
High quality and high reliability.  
Exceptional deep discharge recovery performance.  
Low self discharge characteristic.  
Flexibility design for multiple install positions.

## Construction

|                 |              |                    |               |
|-----------------|--------------|--------------------|---------------|
| Component ..... | Raw material | Sealant .....      | Epoxy Resin   |
| Positive .....  | Lead dioxide | Safety valve ..... | EPDR          |
| Negative .....  | Lead         | Terminal .....     | Copper        |
| Container ..... | ABS          | Separator .....    | AGM           |
| Cover .....     | ABS          | Electrolyte .....  | sulfuric acid |

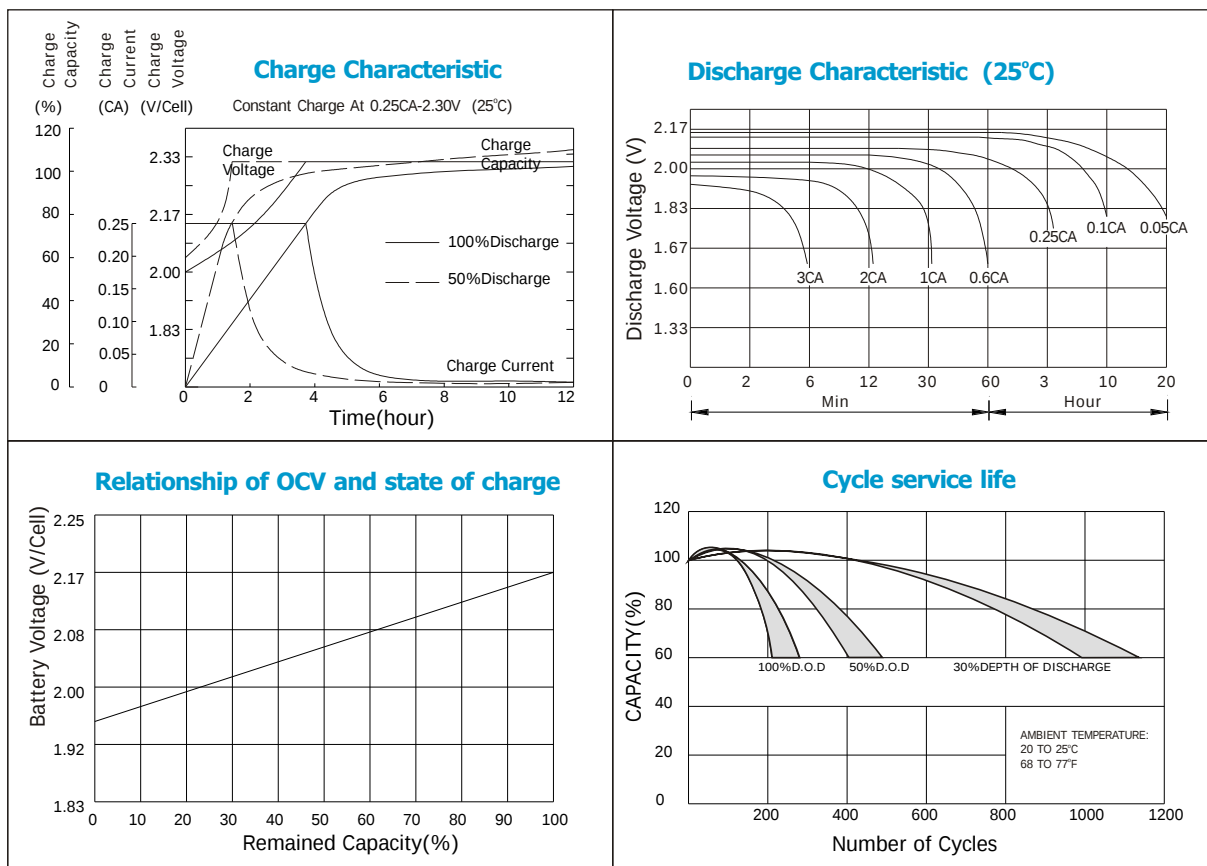


Terminal Dimensions



| Battery Model                    | Solar 6-150                                 |                 |                     |                 |
|----------------------------------|---------------------------------------------|-----------------|---------------------|-----------------|
| Designed Floating Life           | 8 Years                                     |                 |                     |                 |
| Capacity(25°C)                   | 20HR(7.7A,1.75V)                            | 10HR(15A,1.75V) | 5HR(25.5A,1.75V)    | 1HR(96A,1.75V)  |
|                                  | 154AH                                       | 150AH           | 127.5AH             | 96AH            |
| Dimensions                       | Length                                      | Width           | Height              | Total Height    |
|                                  | 260mm(10.2inch)                             | 180mm(7.09inch) | 247mm(9.72inch)     | 247mm(9.72inch) |
| Approx. Weight                   | 24Kg (52.9 2` lbs)                          |                 |                     |                 |
| Internal Resistance              | Full charged at 25°C: 0.0028 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           |                 |
|                                  | 7.2-7.5V(-15mV/ °C), max. Current: 37.5A    |                 | 6.8-6.9V(-10mV/ °C) |                 |

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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 525  | 360   | 263   | 158   | 99.0 | 41.0 | 28.6 | 15.9 | 7.91 |
| 1.67V    | 473  | 329   | 255   | 153   | 98.9 | 40.8 | 28.4 | 15.7 | 7.88 |
| 1.70V    | 449  | 317   | 246   | 150   | 98.6 | 40.8 | 28.4 | 15.5 | 7.88 |
| 1.75V    | 399  | 293   | 233   | 147   | 97.5 | 40.5 | 28.2 | 15.3 | 7.84 |
| 1.80V    | 360  | 272   | 222   | 143   | 96.3 | 40.4 | 27.9 | 15.0 | 7.56 |
| 1.85V    | 273  | 224   | 192   | 131   | 95.3 | 40.2 | 27.7 | 14.7 | 7.11 |

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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|-----|------|------|------|------|
| 1.60V    | 866  | 597   | 465   | 297   | 195 | 78.6 | 54.8 | 31.8 | 15.8 |
| 1.67V    | 821  | 590   | 461   | 291   | 189 | 78.6 | 54.8 | 31.3 | 15.8 |
| 1.70V    | 767  | 575   | 453   | 284   | 184 | 78.6 | 54.8 | 31.1 | 15.8 |
| 1.75V    | 714  | 537   | 426   | 276   | 182 | 77.4 | 54.2 | 30.6 | 15.7 |
| 1.80V    | 641  | 500   | 401   | 269   | 179 | 76.4 | 53.3 | 30.0 | 15.1 |
| 1.85V    | 513  | 414   | 350   | 246   | 177 | 76.1 | 52.5 | 29.5 | 14.2 |

