

## 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

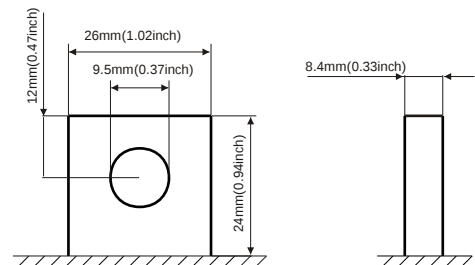
Photovoltaic system  
Alternative Energy System  
Electric Utility  
Outdoor control Equipment  
Railroad Utility

## General Features

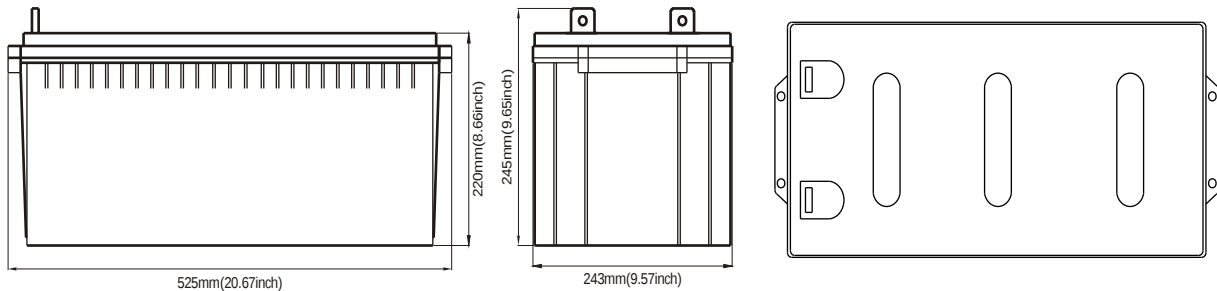
Sealed and maintenance free operation.  
Non-Spillable construction design.  
ABS containers and covers(UL94HB, UL94V-0) optional.  
Safety valve installation for explosion proof.  
High quality and high reliability.  
Exceptional deep discharge recovery performance.  
Low self discharge characteristic.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

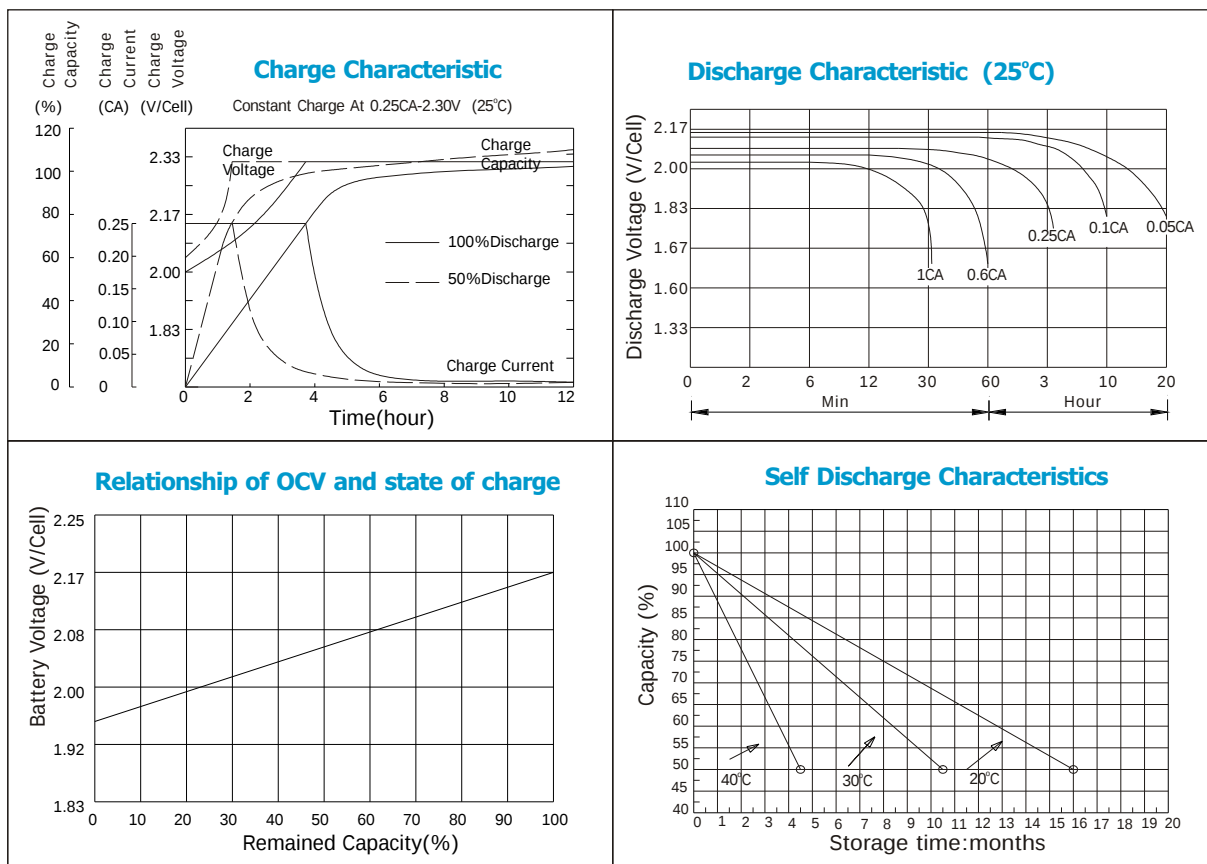


Terminal Dimensions



| Battery Model                    | Solar 12-200                                |                 |                       |                 |
|----------------------------------|---------------------------------------------|-----------------|-----------------------|-----------------|
| Designed Floating Life           | 8 Years                                     |                 |                       |                 |
| Capacity(25°C)                   | 20HR(10.1A,1.75V)                           | 10HR(20A,1.75V) | 5HR(34A,1.75V)        | 1HR(126A,1.75V) |
|                                  | 202AH                                       | 200AH           | 170AH                 | 126AH           |
| Dimensions                       | Length                                      | Width           | Height                | Total Height    |
|                                  | 525mm(20.67inch)                            | 243mm(9.57inch) | 220mm(8.66inch)       | 245mm(9.65inch) |
| Approx. Weight                   | 63Kg (138.92 lbs)                           |                 |                       |                 |
| Internal Resistance              | Full charged at 25°C: 0.004 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             |                 |
|                                  | 14.4-15V(-30mV/ °C), max. Current: 50A      |                 | 13.6-13.8V(-20mV/ °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    | 700  | 480   | 350   | 210   | 132 | 54.6 | 38.2 | 21.2 | 10.5 |
| 1.67V    | 630  | 438   | 340   | 204   | 132 | 54.4 | 37.8 | 20.9 | 10.5 |
| 1.70V    | 598  | 422   | 328   | 200   | 131 | 54.4 | 37.8 | 20.7 | 10.5 |
| 1.75V    | 532  | 390   | 310   | 196   | 130 | 54.0 | 37.5 | 20.4 | 10.5 |
| 1.80V    | 480  | 362   | 296   | 190   | 128 | 53.8 | 37.2 | 20.0 | 10.1 |
| 1.85V    | 364  | 298   | 256   | 175   | 127 | 53.6 | 36.9 | 19.7 | 9.88 |

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

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR | 3HR | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|-----|-----|------|------|------|
| 1.60V    | 1154 | 796   | 620   | 396   | 260 | 105 | 73.0 | 42.4 | 21.1 |
| 1.67V    | 1094 | 786   | 614   | 388   | 251 | 105 | 73.0 | 41.8 | 21.0 |
| 1.70V    | 1022 | 766   | 604   | 378   | 245 | 105 | 73.0 | 41.5 | 21.0 |
| 1.75V    | 952  | 716   | 568   | 368   | 243 | 103 | 72.2 | 40.7 | 20.9 |
| 1.80V    | 854  | 666   | 534   | 358   | 238 | 102 | 71.0 | 40.0 | 20.2 |
| 1.85V    | 684  | 552   | 466   | 328   | 236 | 101 | 70.0 | 39.3 | 19.8 |

