

# Maintenance-Free Rechargeable Sealed Lead-Acid Battery

SB2484

(12V4.5AH)

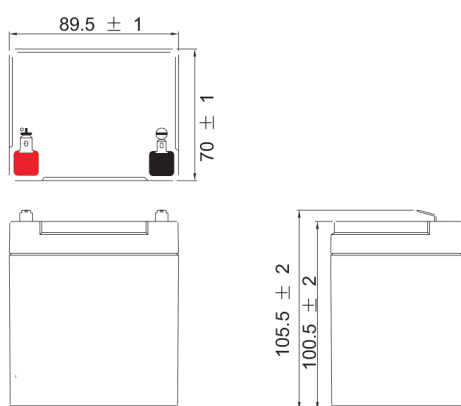
Specification

### Application

- UPS
- Alarm and security system
- Toys



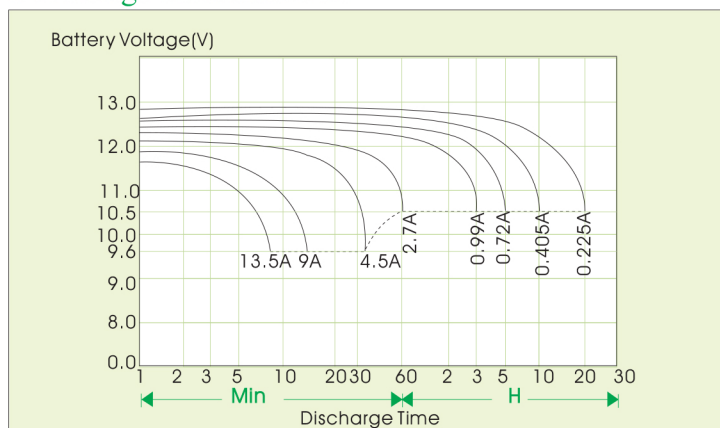
### Dimensions(mm)



|                        |                         |             |
|------------------------|-------------------------|-------------|
| Nominal voltage        |                         | 12V         |
| Rated Capacity (20 HR) |                         | 4.5AH       |
| Approx Weight          |                         | 1.5kg       |
| Terminal               | Standard                | F1-TAB 187E |
|                        | Optional                |             |
| Operation Temperature  |                         |             |
| Charge                 | 0°C(32°F)~40°C(104°F)   |             |
| Discharge              | -20°C(-4°F)~50°C(122°F) |             |
| Storage                | -20°C(-4°F)~40°C(104°F) |             |

|   |                         |  |
|---|-------------------------|--|
| Capacity<br>25°C (77°F)                               | 20 hour rate (0.225A)   | 4.5AH  |
|   | 10 hour rate (0.405A)   | 4.05AH   |
|   | 5 hour rate (0.72A)     | 3.6AH  |
|   | 1 hour rate (2.7A)      | 2.7AH  |
| Capacity affected<br>by temperature                   | 40°C (104°F)            | 103%   |
|   | 25°C (77°F)             | 100%   |
|   | 0°C (32°F)              | 86%  |
|   | -15°C (5°F)             | 65%  |
| Self-discharge at<br>25°C (77°F)<br>(Before recharge) | Capacity after 3 month  | 91%  |
|   | Capacity after 6 month  | 82%  |
|   | Capacity after 12 month | 64%  |
| Constant<br>voltage<br>charge                         | Cycle                   | Initial Charging Current ≤ 1.35A<br>14.4V~15V at 25°C (77°F) |
|   | Standby                 | 13.5V~13.8V at 25°C (77°F)                                   |
| Max discharge current for 5 secretary                 |                         | 67.5A  |

### Discharge characteristic



Note: Discharge shall be cut-off at 10.5V if discharge at  $< 1C_A$  and at 9.6V if at  $\geq 1C_A$

It is recommended to recharge battery by constant-voltage charge immediately after use

### Constant current (Amp) and Constant Power (Watt) Discharge Table at 25°C (77°F)

| Final voltage | Time (min) | 5       | 10     | 15    | 20    | 30    | 60    | 120   | 180   | 300  | 600  |
|---------------|------------|---------|--------|-------|-------|-------|-------|-------|-------|------|------|
|               |            | 1.80VPC | A      | 17.19 | 10.52 | 7.90  | 6.52  | 4.25  | 2.62  | 1.63 | 0.87 |
|               | W          | 180.50  | 110.50 | 83.00 | 68.50 | 48.50 | 29.50 | 17.10 | 12.50 | 8.10 | 4.50 |
| 1.75VPC       | A          | 17.57   | 10.80  | 8.14  | 6.71  | 4.43  | 2.70  | 1.75  | 0.99  | 0.72 | 0.40 |
|               | W          | 184.50  | 113.50 | 85.50 | 70.50 | 50.50 | 30.50 | 18.41 | 13.39 | 8.80 | 5.13 |
| 1.70VPC       | A          | 17.71   | 10.95  | 8.28  | 6.85  | 4.52  | 3.05  | 1.80  | 1.12  | 0.78 | 0.45 |
|               | W          | 186.00  | 115.00 | 87.00 | 72.00 | 52.00 | 32.00 | 18.90 | 13.80 | 9.05 | 5.16 |
| 1.65VPC       | A          | 17.90   | 11.14  | 8.46  | 7.05  | 4.65  | 3.24  | 1.83  | 1.20  | 0.84 | 0.49 |
|               | W          | 188.00  | 117.00 | 89.00 | 74.00 | 54.00 | 34.00 | 19.12 | 13.91 | 9.15 | 5.30 |
| 1.60VPC       | A          | 18.00   | 11.23  | 9.00  | 7.14  | 4.72  | 3.33  | 1.83  | 1.28  | 0.88 | 0.52 |
|               | W          | 189.00  | 118.00 | 90.00 | 75.00 | 55.00 | 35.00 | 19.25 | 13.99 | 9.21 | 5.45 |