

## FEATURES

- Cyclic products
- Maintenance free valve regulated lead LPG Series acid batteries
- Long-time discharge
- Suitable for space and storage electric power use
- Special plate design, long cycle lifetime
- Long storage time
- Good deep discharge resilience performance

## RS PRO Gel Battery 12V, 26Ah

RS Stock No.: 883-8853



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

These batteries are made from an ABS material which greatly increases the strength of the battery container. Suitable for use across a number of industries as well as for cyclic products. This gel rechargeable battery is sealed and has many uses. RS PRO offers a range of gel rechargeable batteries with different voltages and chargers to suit all your requirements. All models are highly reliable and offer excellent quality, performance and durability.

[883-8844](#) - 12V, 17Ah

[883-8850](#) - 12V, 38Ah

[883-8853](#) - 12V, 26Ah

[883-8856](#) - 12V, 31Ah

[883-8866](#) - 12V, 100Ah

[883-8869](#) - 12V, 60Ah

## General Specifications

|  |                          |
|--|--------------------------|
| <b>Technology</b>                      | Gel                      |
| <b>Designed for Cyclic Application</b> | Yes                      |
| <b>Eurobat Classification</b>          | 10 to 12 Years           |
| <b>Container Material</b>              | A.B.S. (UL94-HB) conform |
| <b>Application</b>                     | Cyclic products          |

### Electrical Specifications

|                                       |  |
|---------------------------------------|--|
| <b>Capacity</b>                       | 26Ah   |
| <b>Nominal Voltage</b>                | 12V  |
| <b>Terminal Type</b>                  | T12  |
| <b>Cells Per Unit</b>                 | 6V   |
| <b>Voltage Per Unit</b>               | 12V  |
| <b>Max. Discharge Current</b>         | 312A (5 sec)   |
| <b>Max. Charging Current Limit</b>    | 5.2A   |
| <b>Float charging Voltage</b>         | 13.5VDC to 13.8VDC/unit Average at 25°C  |
| <b>Internal Resistance</b>            | 13.5mOhm   |
| <b>Equalization and Cycle Service</b> | 14.4VDC to 15.0VDC/unit Average at 25°C  |
| <b>Self-Discharge</b>                 | The batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using. |

### Mechanical Specifications

|                   |                       |
|-------------------|-----------------------|
| <b>Dimensions</b> | 166mm x 175mm x 125mm |
| <b>Height</b>     | 166mm                 |
| <b>Length</b>     | 175mm                 |
| <b>Width</b>      | 125mm                 |
| <b>Weight</b>     | 8.7kg                 |

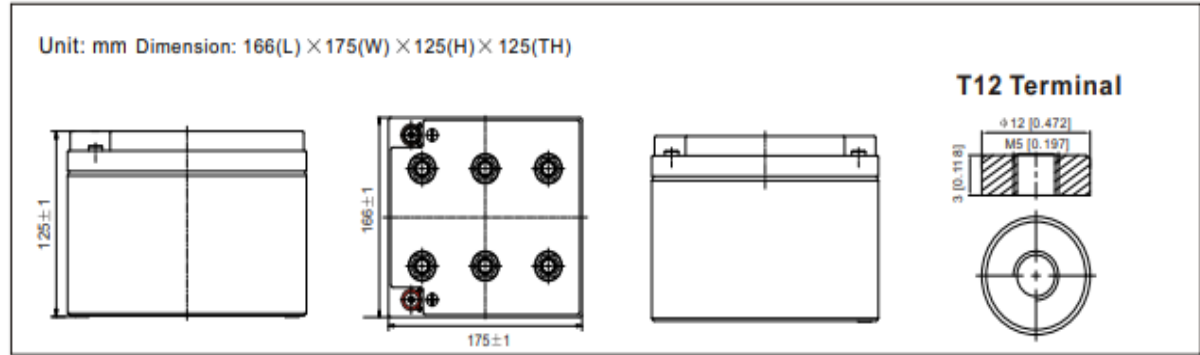
### Operation Environment Specifications

|  |  |
|--|--|
| <b>Operating Temperature Range</b>         | Discharge : -20°C to 55°C<br>Charge : 0°C to 40°C<br>Storage : -20°C to 50°C |
| <b>Nominal Operating Temperature Range</b> | 25 ±3°C (77 ±5°F)  |

### Approvals

|                                  |         |
|----------------------------------|---------|
| <b>Compliance/Certifications</b> | UL94-HB |
|----------------------------------|---------|

## Dimensions



## Available Capacity Subject to Temperature

| Battery Type |        | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|--------|-------|-------|-----|-----|------|------|------|------|------|------|
| AGM Battery  | 6V&12V | 46%   | 66%   | 76% | 83% | 90%  | 98%  | 100% | 103% | 107% | 109% |

## Discharge Current VS. Discharge Voltage

| Final Discharge Voltage V/cell | 1.80V      | 1.75V             | 1.60V      |
|--------------------------------|------------|-------------------|------------|
| Discharge Current (A)          | (A) ≤ 0.2C | 0.2C < (A) < 1.0C | (A) ≥ 1.0C |

**Charge the batteries at least once every six months, if they are stored at 25°C.**

## Charging Method

|                  |   |
|------------------|---|
| Constant Voltage | -0.2Cx2h+2.4~2.45V/Cellx24h, Max. Current 0.3CA     |
| Constant Current | 0.1C until the voltage reaching 14.4V, then 0.1Cx4h |

| Constant Current Discharge Characteristics : A (25 °C) |       |       |       |      |      |      |      |      |      |      |      |      |      | Amps |
|--|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| F.V/Time   | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 20h  |
| 1.85V/cell   | 22.0  | 17.3  | 13.2  | 11.0 | 6.99 | 5.33 | 4.41 | 3.81 | 3.29 | 2.91 | 2.63 | 2.40 | 2.27 | 1.25 |
| 1.80V/cell   | 25.2  | 19.3  | 14.5  | 12.2 | 7.57 | 5.71 | 4.68 | 4.00 | 3.45 | 3.05 | 2.75 | 2.52 | 2.37 | 1.30 |
| 1.75V/cell   | 28.3  | 21.2  | 15.7  | 13.0 | 8.02 | 6.03 | 4.90 | 4.16 | 3.58 | 3.16 | 2.84 | 2.60 | 2.42 | 1.33 |
| 1.70V/cell   | 30.5  | 22.7  | 16.7  | 13.8 | 8.50 | 6.28 | 5.06 | 4.29 | 3.70 | 3.26 | 2.93 | 2.67 | 2.48 | 1.34 |
| 1.67V/cell   | 31.7  | 23.6  | 17.3  | 14.3 | 8.72 | 6.48 | 5.19 | 4.38 | 3.76 | 3.31 | 2.97 | 2.70 | 2.50 | 1.36 |
| 1.60V/cell   | 34.4  | 25.3  | 18.5  | 15.2 | 9.07 | 6.74 | 5.38 | 4.51 | 3.85 | 3.38 | 3.02 | 2.76 | 2.55 | 1.38 |

| Constant Power Discharge Characteristics : W (25 °C) |       |       |       |      |      |      |      |      |      |      |      |      |      | Watts |
|--|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|-------|
| F.V/Time   | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 7h   | 8h   | 9h   | 10h  | 20h   |
| 1.85V/cell   | 42.1  | 33.3  | 25.5  | 21.5 | 13.7 | 10.4 | 8.68 | 7.52 | 6.52 | 5.78 | 5.23 | 4.78 | 4.53 | 2.49  |
| 1.80V/cell   | 47.6  | 36.8  | 28.0  | 23.6 | 14.7 | 11.1 | 9.17 | 7.88 | 6.82 | 6.03 | 5.46 | 5.02 | 4.72 | 2.59  |
| 1.75V/cell   | 52.9  | 40.1  | 30.0  | 25.1 | 15.6 | 11.8 | 9.57 | 8.16 | 7.04 | 6.23 | 5.62 | 5.16 | 4.81 | 2.64  |
| 1.70V/cell   | 56.4  | 42.6  | 31.6  | 26.4 | 16.4 | 12.2 | 9.86 | 8.39 | 7.27 | 6.43 | 5.78 | 5.29 | 4.92 | 2.67  |
| 1.67V/cell   | 58.0  | 43.8  | 32.5  | 27.2 | 16.7 | 12.5 | 10.1 | 8.54 | 7.36 | 6.50 | 5.86 | 5.35 | 4.97 | 2.69  |
| 1.60V/cell   | 62.2  | 46.4  | 34.7  | 28.8 | 17.3 | 13.0 | 10.4 | 8.78 | 7.52 | 6.62 | 5.95 | 5.45 | 5.06 | 2.73  |

