



General Features

PS series VRLA battery uses AGM technology and high-purity raw materials. Its good floating back up and large current discharge performance makes it optimal and economical choice for UPS/EPS.

Benefits

- Standard Commercial according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Easy installation and handling
- Vertical or horizontal installation

Applications

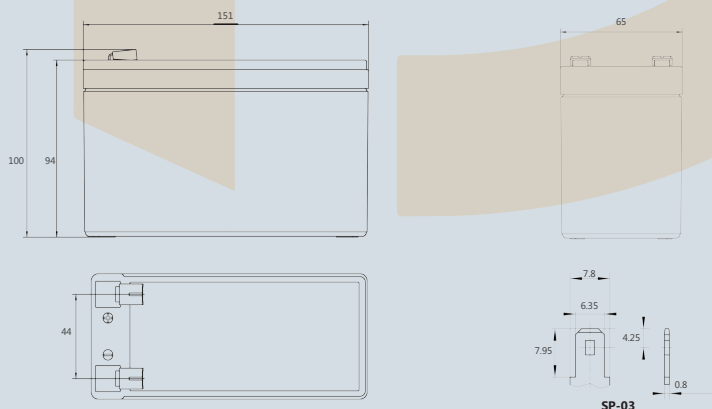
- UPS units
- Emergency power
- Starting generators
- EPS units

Specifications

| | | | | |
|--------------------------------------|--|---------------------|-----------------------|--------------------|
| Battery Model | PS-1290-AGSS | | | |
| Design Life (years, 25°C) | 5 | | | |
| Capacity (Ah, 25°C) | 20HR (0.45A, 1.75V) | 10HR (0.82A, 1.75V) | 5HR (1.44A, 1.75V) | 1HR(5.314A, 1.70V) |
| | 9 | 8.2 | 7.2 | 5.314 |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 151 | 65 | 94 | 100 |
| Approx. Weight (kg) | 2.70 | | | |
| Reference Internal Resistance (mΩ) | 14.5 (full charged @ 25°C) | | | |
| Maximum Discharge Current (A/5 Sec.) | 135 | | | |
| Self-Discharge (25°C) | ≤3% per month | | | |
| Charge Voltage (V/cell, 25°C) | Cycle use | | Float use | |
| | 2.45 (-3.5mV/°C/cell), max charge current: 2.7 A | | 2.27 (-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 230 | | | |



Drawing



The Crown of Power Solution

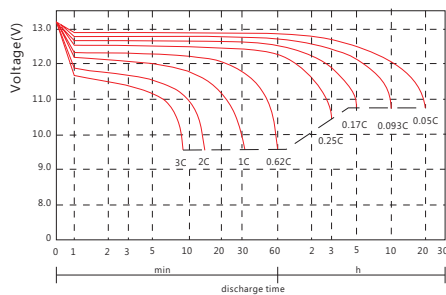


Discharge Data

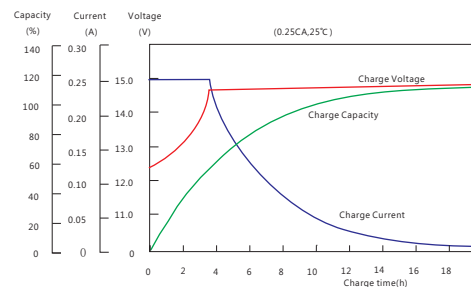
| Constant Current Discharge Data (25°C, A) | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell) | min | | | | | h | | | | | | |
| | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 10 | 20 |
| 1.60 | 25.22 | 17.33 | 13.44 | 9.722 | 6.765 | 5.444 | 3.883 | 3.108 | 2.303 | 1.471 | 0.840 | 0.458 |
| 1.65 | 24.59 | 16.96 | 13.19 | 9.558 | 6.656 | 5.372 | 3.834 | 3.072 | 2.274 | 1.464 | 0.835 | 0.456 |
| 1.67 | 24.41 | 16.84 | 13.12 | 9.503 | 6.605 | 5.346 | 3.812 | 3.057 | 2.265 | 1.460 | 0.830 | 0.454 |
| 1.70 | 24.23 | 16.73 | 13.00 | 9.430 | 6.573 | 5.314 | 3.797 | 3.042 | 2.254 | 1.453 | 0.825 | 0.452 |
| 1.75 | 22.56 | 15.84 | 12.48 | 9.120 | 6.400 | 5.200 | 3.733 | 3.000 | 2.232 | 1.440 | 0.820 | 0.450 |
| 1.80 | 20.64 | 14.78 | 11.82 | 8.755 | 6.189 | 5.080 | 3.670 | 2.958 | 2.205 | 1.424 | 0.810 | 0.445 |

| Constant Power Discharge Data (25°C, W/cell) | | | | | | | | | | | | |
|--|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell) | min | | | | | h | | | | | | |
| | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 10 | 20 |
| 1.60 | 47.45 | 32.97 | 25.83 | 18.83 | 13.19 | 10.676 | 7.643 | 6.142 | 4.566 | 2.926 | 1.674 | 0.916 |
| 1.65 | 46.43 | 32.38 | 25.42 | 18.55 | 13.01 | 10.564 | 7.571 | 6.086 | 4.518 | 2.917 | 1.668 | 0.913 |
| 1.67 | 46.26 | 32.21 | 25.32 | 18.48 | 12.94 | 10.52 | 7.536 | 6.063 | 4.506 | 2.912 | 1.659 | 0.909 |
| 1.70 | 46.02 | 32.05 | 25.13 | 18.37 | 12.90 | 10.476 | 7.514 | 6.038 | 4.488 | 2.901 | 1.651 | 0.906 |
| 1.75 | 43.01 | 30.45 | 24.20 | 17.81 | 12.59 | 10.270 | 7.405 | 5.967 | 4.452 | 2.881 | 1.644 | 0.904 |
| 1.80 | 39.53 | 28.55 | 22.99 | 17.15 | 12.197 | 10.065 | 7.296 | 5.898 | 4.406 | 2.855 | 1.627 | 0.895 |

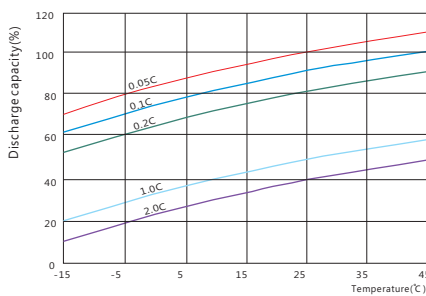
Performance Curve



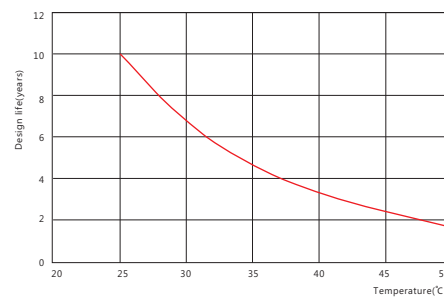
Discharge voltage vs. discharge time



Charge capacity vs. charge time

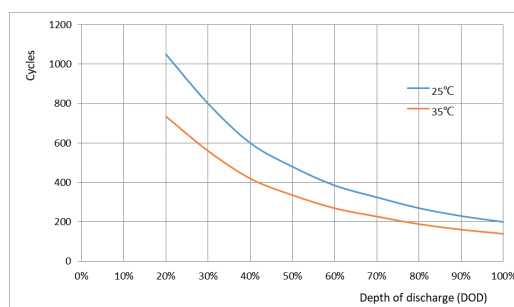


Discharge capacity vs. temperature



Design life vs. temperature

SP series DOD vs cycles at different temperature



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