



ALPHA HOUSE

intelligent power

AH12-38
(12V-38Ah)
VRLA AGM

New Image



Coming Soon

Applications

- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

Specification

| | |
|-----------------------|--|
| Nominal Voltage | 12V |
| Nominal Capacity | 38Ah |
| Design life | 5 years |
| Terminal | M5 |
| Approx. Weight | Approx10.8kg |
| Container Material | ABS |
| | 44.2Ah 10Hour Rate (4.42A to 10.5V) |
| | 38.0Ah 3Hour Rate (12.7A to 10.5V) |
| | 30.1Ah 1Hour Rate (30.1A to 10.5V) |
| Operating Temperature | Discharge: -20 ~50°C(-4~ 122°F) Charge: -20 ~50°C(-4~ 122°F) Storage: -20 ~50°C(-4~ 122°F) |
| | Float Use:13.7-13.9V@25°C Cycle Use :14.7-14.9V,@25°C Max charge current 7.6A |
| Charge Method (25 °C) | |
| Self discharge | 3% of capacity declined per month at 25°C |

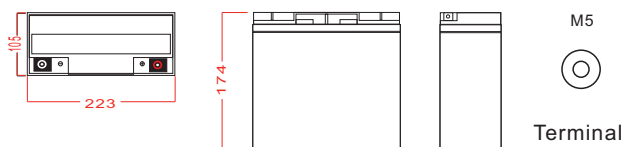
General Features

- > High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- > High Energy Density and Power Density
- > Excellent Charge Acceptance Ability
- > Strong High and Low Temperature Performance
- > Optimized Capability of instant High-current Discharging
- > Low self-discharge rate

Manufacturer's Certificates



Dimension: 223(L)×106(W)×174(H)×174(TH) Unit: mm



Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| F.V/Time | 5M | 15M | 30M | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-----|------|------|------|------|------|------|------|------|------|
| 1.60V | 162 | 86.8 | 52.8 | 31.0 | 17.7 | 13.1 | 8.61 | 5.53 | 4.55 | 2.40 |
| 1.65V | 157 | 84.2 | 51.9 | 30.8 | 17.6 | 13.0 | 8.55 | 5.48 | 4.51 | 2.39 |
| 1.70V | 151 | 82.3 | 51.0 | 30.6 | 17.5 | 12.8 | 8.42 | 5.44 | 4.46 | 2.38 |
| 1.75V | 139 | 79.8 | 50.6 | 30.1 | 17.2 | 12.7 | 8.36 | 5.40 | 4.42 | 2.36 |
| 1.80V | 124 | 74.1 | 48.4 | 29.4 | 16.9 | 12.6 | 8.17 | 5.36 | 4.37 | 2.35 |
| 1.85V | 111 | 66.5 | 44.1 | 27.2 | 16.0 | 11.8 | 7.73 | 5.14 | 4.24 | 2.31 |

Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

| F.V/Time | 5M | 15M | 30M | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-----|-----|------|------|------|------|------|------|------|------|
| 1.60V | 271 | 153 | 95.6 | 58.4 | 33.5 | 25.0 | 16.3 | 10.8 | 8.87 | 4.79 |
| 1.65V | 261 | 150 | 95.0 | 58.0 | 33.4 | 24.6 | 16.3 | 10.6 | 8.81 | 4.77 |
| 1.70V | 260 | 149 | 95.0 | 57.5 | 33.3 | 24.5 | 16.2 | 10.6 | 8.68 | 4.74 |
| 1.75V | 242 | 148 | 94.4 | 57.1 | 33.1 | 24.4 | 16.0 | 10.5 | 8.61 | 4.72 |
| 1.80V | 222 | 139 | 91.8 | 56.6 | 33.0 | 24.3 | 15.9 | 10.5 | 8.49 | 4.70 |
| 1.85V | 198 | 125 | 84.2 | 52.6 | 31.5 | 23.1 | 15.1 | 10.1 | 8.36 | 4.66 |

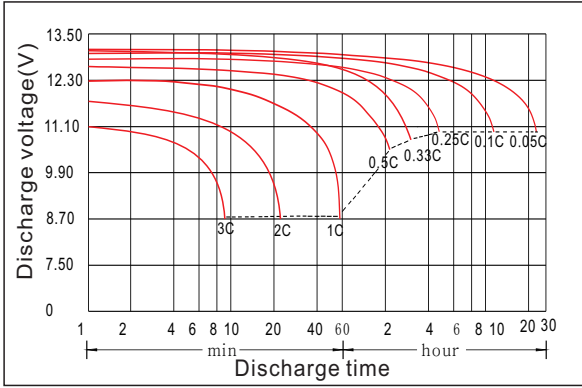


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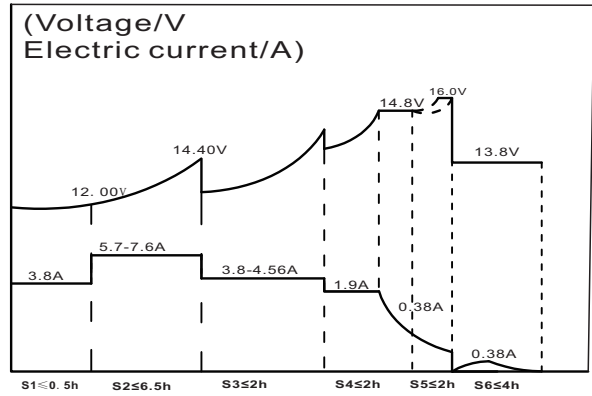
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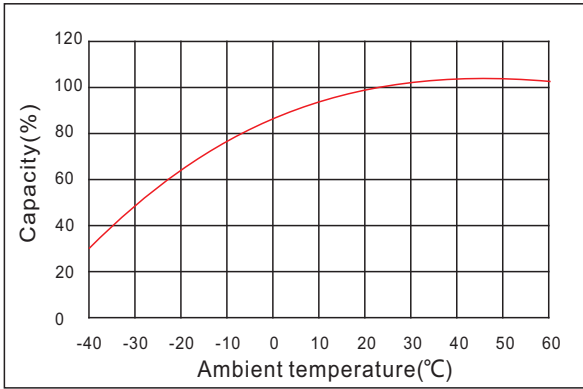
Discharge characteristic



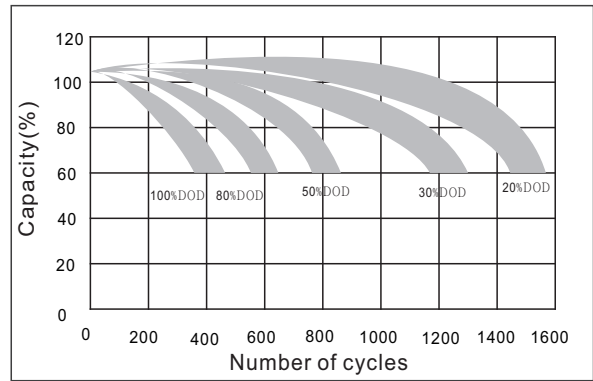
Charging characteristic



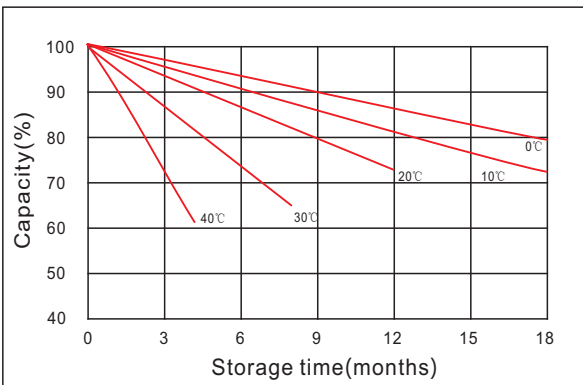
The effect of temperature on capacity



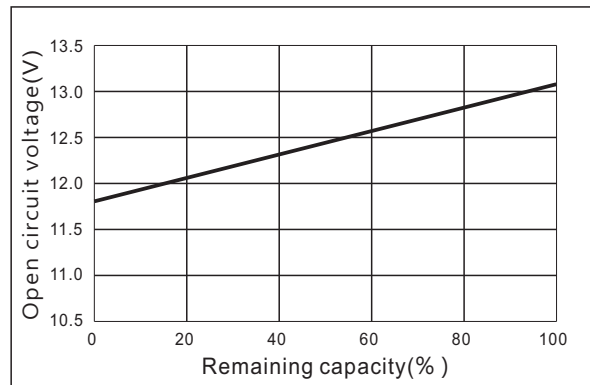
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



Disclaimer: The manufacturer reserves the right to amend and/or vary the specifications and parameters of the product and apply updates accordingly at any time. It is the sole responsibility of the buyer and user of the product to ensure all applicable product specifications referred to are valid and up to date. All product specifications are available upon request. Batteries must be installed in accordance with standard BS EN IEC 62485-2:2018, and in accordance with manufacturer's guidelines. (available upon request)

