

TECHNICAL DATA SHEET

DAB6-270EV



Applications



CYCLIC



STATIONARY



SOLAR



MARINE

Applications

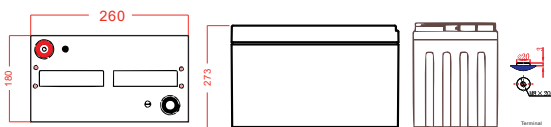
- > Electric vehicle
- > Electric wheelchair
- > Electric scooter
- > Electric play car for children
- > Garbage truck
- > Patrol car

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



Dimension: 260(L)×180(W)×268(H)×273(TH) Unit: mm



Specification

| | |
|--------------------|-------------------------|
| Nominal Voltage | 6V |
| Nominal Capacity | 272Ah |
| Design life | 10 years |
| Terminal | M8 |
| Approx. Weight | Approx 35.0kg (77.2lbs) |
| Container Material | ABS |

272Ah 20Hour Rate (13.6A to 5.25V)

Rated Capacity **255Ah** 10 Hour Rate (25.5A to 5.25V)

242Ah 5Hour Rate (48.4A to 5.25V)

| | | |
|-----------------------|------------|-----------------------|
| Operating Temperature | Discharge: | -20 ~50°C (-4~ 122°F) |
| | Charge: | -20 ~50°C (-4~ 122°F) |
| | Storage: | -20 ~50°C (-4~ 122°F) |

Charge current: 44.0A

Charge Method Float Charge: 6.85-6.90 V, recom. 6.90 V (-3mVPC/°C) (25 °C)
Cycle charge: 7.14 -7.20 V, recom. 7.20 V (-5mVPC/°C)

Self discharge 3% of capacity declined per month at 25°C

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

| F.V/Time | 5Minin | 15Minin | 30Minin | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|--------|---------|---------|-----|------|------|------|------|------|------|
| 1.60V | 936 | 503 | 306 | 179 | 103 | 76.0 | 49.9 | 32.0 | 26.3 | 13.9 |
| 1.65V | 908 | 487 | 300 | 178 | 102 | 75.2 | 49.5 | 31.8 | 26.1 | 13.8 |
| 1.70V | 871 | 477 | 296 | 176 | 101 | 74.1 | 49.0 | 31.5 | 25.9 | 13.6 |
| 1.75V | 801 | 462 | 293 | 174 | 100 | 73.4 | 48.4 | 31.2 | 25.5 | 13.6 |
| 1.80V | 718 | 430 | 281 | 169 | 97.9 | 72.8 | 47.1 | 31.0 | 25.3 | 13.5 |
| 1.85V | 640 | 384 | 255 | 157 | 93.0 | 68.5 | 44.8 | 29.7 | 24.5 | 13.3 |

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

| F.V/Time | 5Minin | 15Minin | 30Minin | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|--------|---------|---------|-----|-----|-----|------|------|------|------|
| 1.60V | 1570 | 886 | 553 | 338 | 194 | 144 | 94.7 | 62.3 | 50.6 | 27.3 |
| 1.65V | 1509 | 870 | 548 | 336 | 194 | 143 | 94.3 | 61.7 | 50.1 | 27.2 |
| 1.70V | 1502 | 860 | 548 | 333 | 193 | 142 | 93.5 | 61.5 | 49.6 | 27.1 |
| 1.75V | 1400 | 855 | 546 | 330 | 191 | 141 | 93.0 | 60.9 | 49.1 | 27.0 |
| 1.80V | 1286 | 809 | 532 | 328 | 191 | 141 | 91.9 | 60.5 | 48.6 | 26.8 |
| 1.85V | 1148 | 723 | 488 | 305 | 183 | 134 | 87.8 | 58.4 | 47.9 | 26.6 |

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information

Charger recommendations

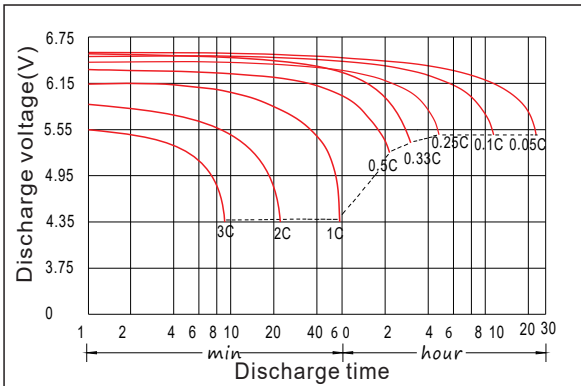
| Type of charger | Zivan | AQHF WP | AQHF24-30FC G2 |
|------------------|-----------------|------------|----------------|
| Matching profile | AGM =BA1+CU2 | AMG SLA | AGM |

Max. charging voltage 2.4Vpc

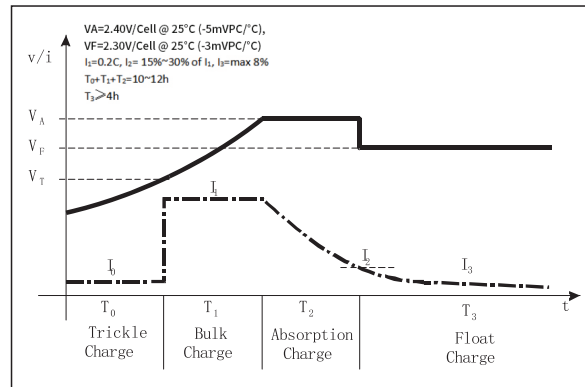
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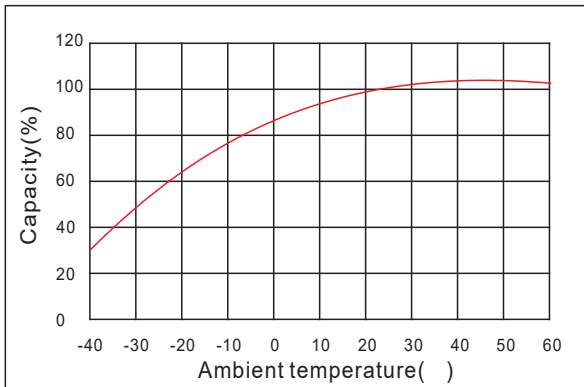
Discharge characteristic



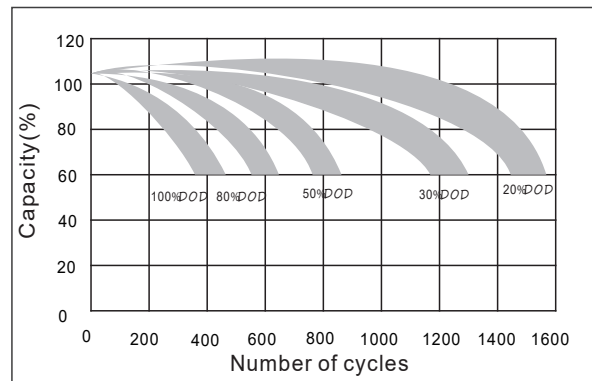
Charging characteristic



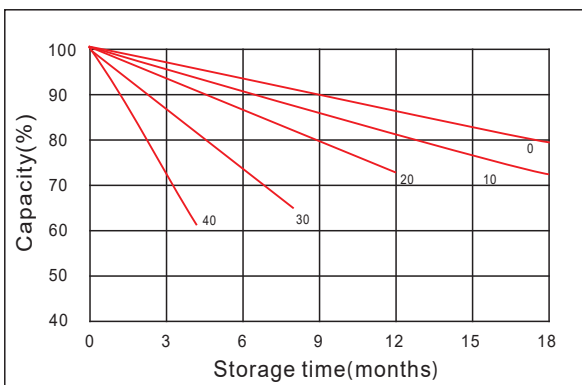
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

