

VRLA AGM Battery

BT-HSE-40-12 [12V40Ah]



General Features

- Designed floating charging service life: 12 years (25°C)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic, approx 3% of capacity per month at 20°C (average)
- Wide operating temperature range from 0°C~40°C
- Lead-Aluminum-Calcium-Tin alloy high energy, prevent corrosion

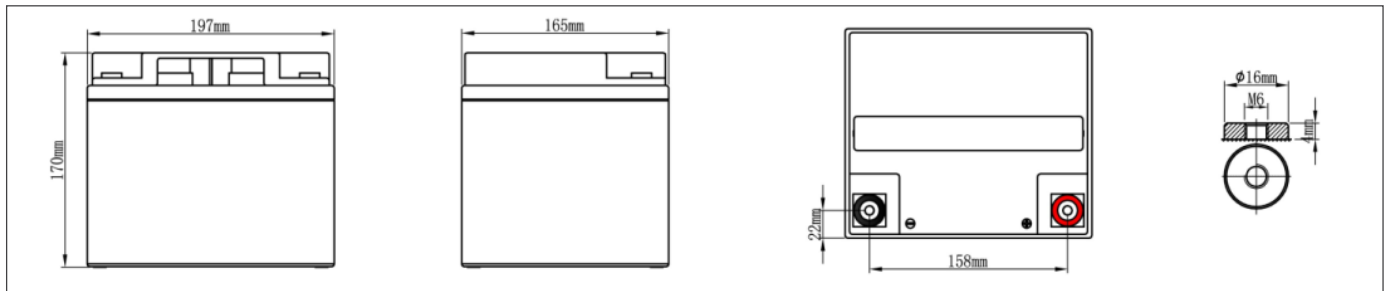
Applications

- DC power supply
- UPS/ EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipment
- Emergency lighting systems

Physical Specifications

| Nominal Voltage | Nominal Capacity (10HR) | Dimension | | | | Weight ±3% | Internal Resistance (In full charge status) | Standard Terminals |
|-----------------|-------------------------|-----------|---------|---------|---------|--------------------------|---|--------------------|
| | | L | W | H | TH | | | |
| 12V | 40Ah | 197±2mm | 165±2mm | 170±2mm | 170±2mm | Approx 12.3kg (27.06lbs) | ≤ 9.8mΩ | F09 (standard) |

Dimensions



Constant-Voltage Charge

| Rated Capacity | |
|----------------------------------|--------|
| 20 hour rate (2.0A/10.8V) | 40.0Ah |
| 10 hour rate (3.84A/10.8V) | 38.4Ah |
| 5 hour rate (6.41A to 10.5V) | 32.0Ah |
| 3 hour rate (9.45A to 10.5V) | 28.2Ah |
| 1 hour rate (23.0A to 10.2V) | 23.0Ah |
| Capacity affected by Temperature | |
| 40°C(104°F) | 103% |
| 25°C(77°F) | 100% |
| 0°C(32°F) | 86% |

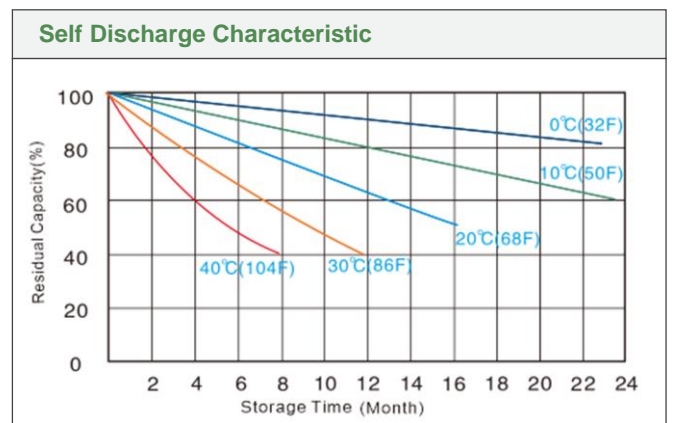
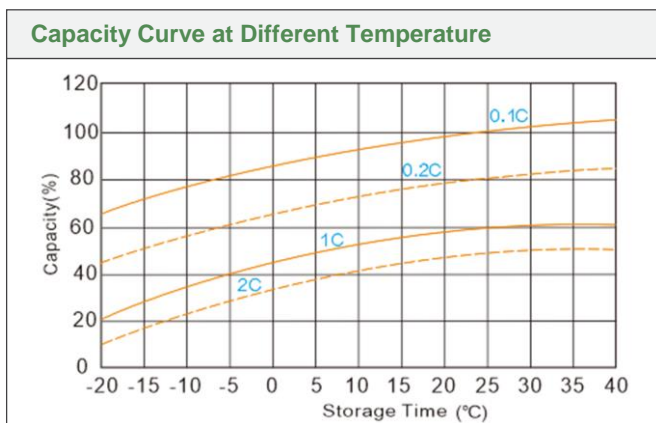
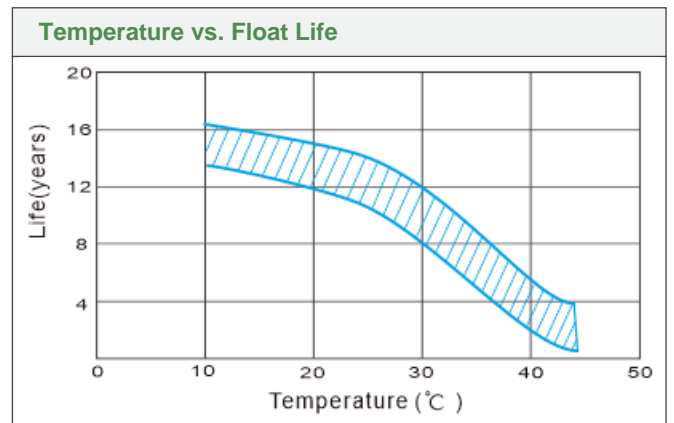
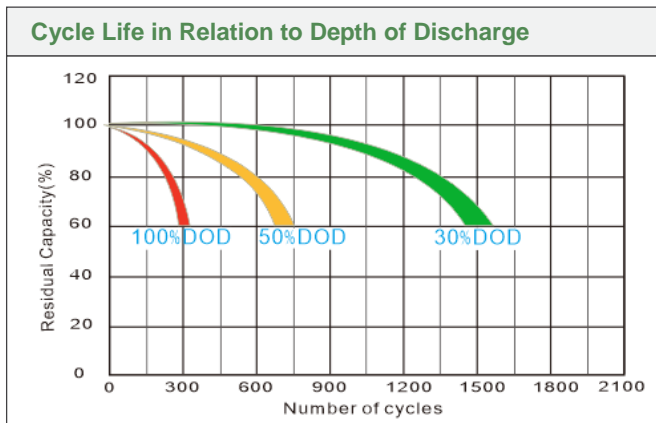
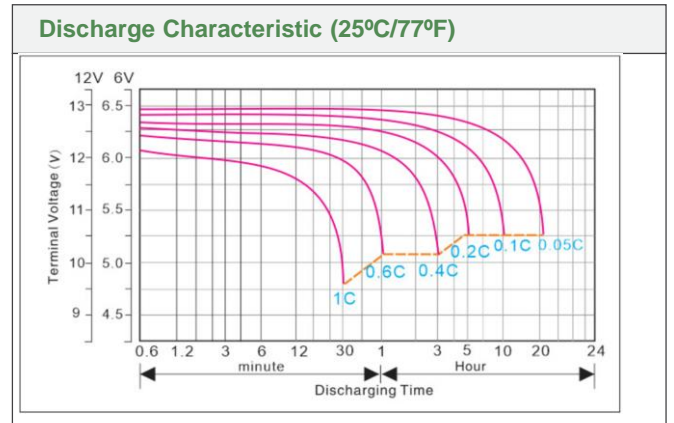
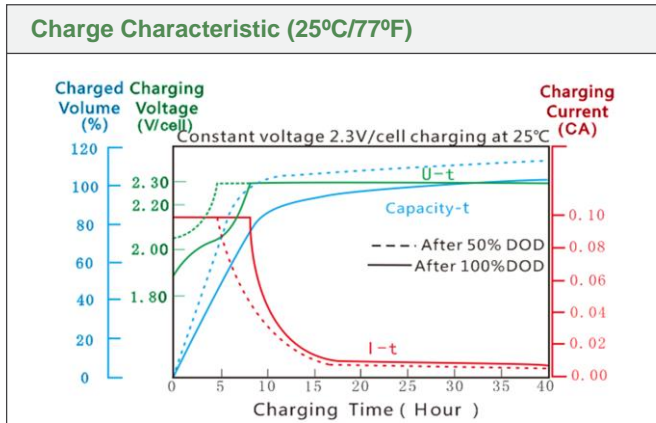
| Cycle Application |
|--|
| 1. Limit initial current less than 9.5A |
| 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F) |
| 3. Hold at 14.1V to 14.4V until current drop to under 0.23A for at least 3 hours |
| 4. Temperature compensation coefficient of charging voltage is -30mV/°C |
| Standby Service |
| 1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 9.5A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status |
| 2. Temperature compensation coefficient of charging voltage is -18mV/°C |

NOTE: The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

| End Volts/Cell | Minute (M) | | | | Hour (H) | | | | | | | |
|--|------------|-------|------|------|----------|------|------|------|------|------|------|------|
| | 10 | 15 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 8 | 10 | 20 |
| Constant Current Discharge Data Sheet (@25°C) Unit: A | | | | | | | | | | | | |
| 1.70V | 84.5 | 71.3 | 37.6 | 30.8 | 23.0 | 18.2 | 15.3 | 9.75 | 6.62 | 4.59 | 3.92 | 2.05 |
| 1.75V | 80.6 | 68.8 | 37.3 | 29.5 | 22.4 | 17.7 | 14.9 | 9.40 | 6.40 | 4.51 | 3.88 | 2.03 |
| 1.80V | 76.2 | 66.2 | 34.3 | 28.3 | 21.9 | 17.3 | 14.6 | 9.21 | 6.30 | 4.40 | 3.84 | 2.00 |
| Constant Power Discharge Data Sheet (@25°C) Unit: W | | | | | | | | | | | | |
| 1.70V | 173.5 | 142 | 82.7 | 59.8 | 48.8 | 35.6 | 26.6 | 20.0 | 12.8 | 9.82 | 7.75 | 4.17 |
| 1.75V | 167.5 | 137.5 | 79.7 | 58.0 | 47.6 | 34.8 | 26.0 | 19.5 | 12.5 | 9.62 | 7.68 | 4.13 |
| 1.80V | 160.5 | 133 | 76.5 | 56.4 | 46.5 | 34.0 | 25.3 | 19.0 | 12.1 | 9.43 | 7.60 | 4.08 |

Performance Characteristics



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