

VRLA AGM Battery

BT-HSE-75-12 [12V75Ah]



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
- Wide operating temperature range from 0°C~40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

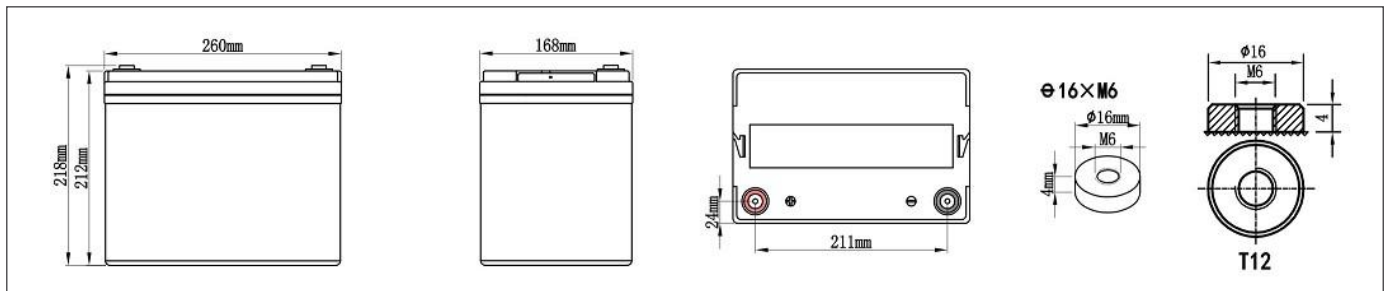
Application

- 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 | 75AH | 260±3mm | 168±2mm | 212±3mm | 218±3mm | Approx 23.3kg (51.36lbs) | ≤ 6.10 mΩ | T12 (standard) |

Dimensions



Constant-Voltage Charge

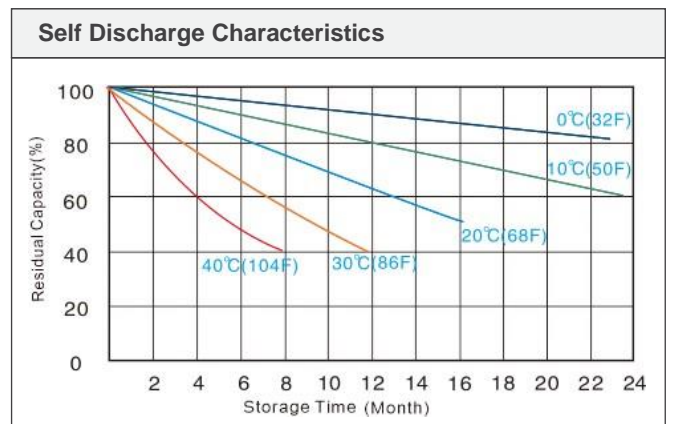
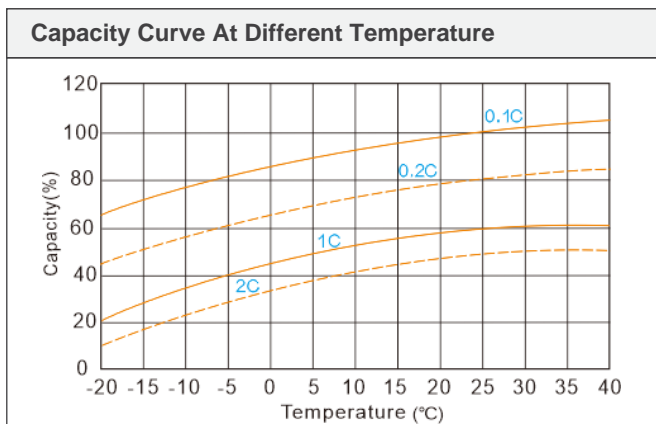
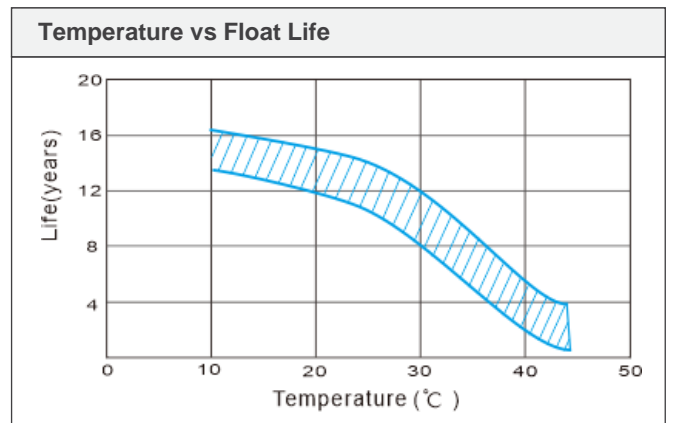
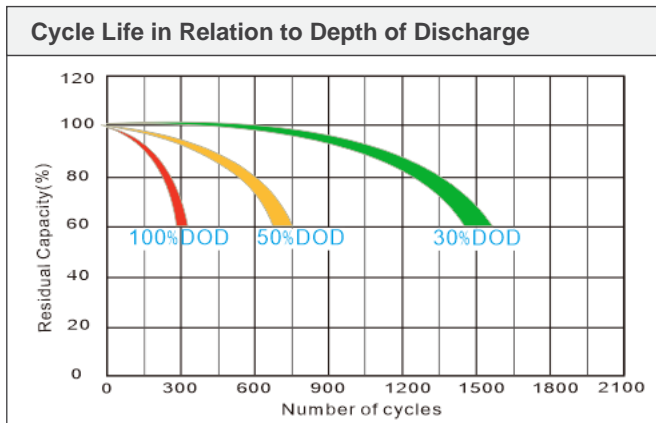
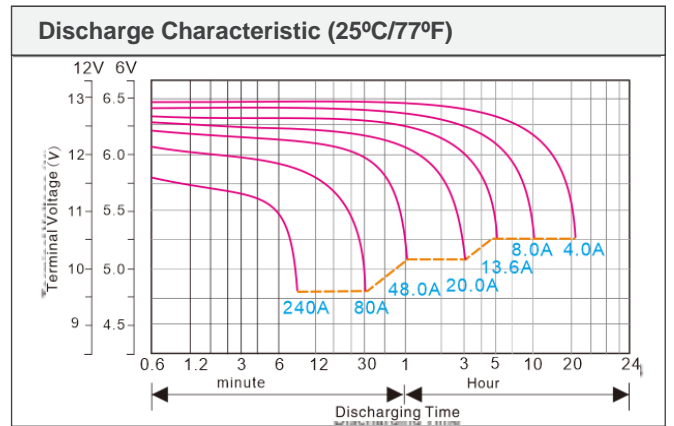
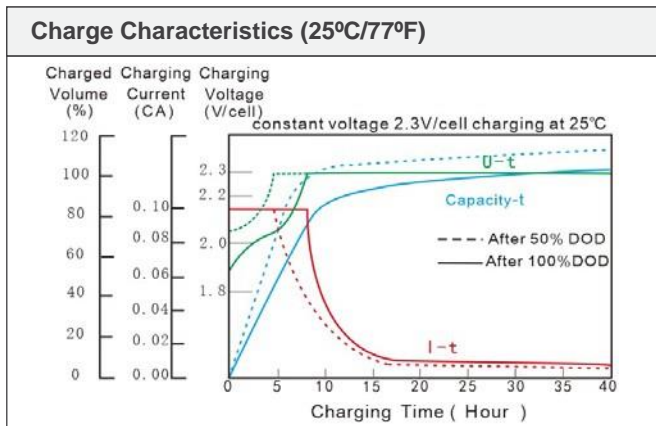
| Rated Capacity | |
|----------------------------------|--------|
| 20 hour rate (3.9A) | 78.0AH |
| 10 hour rate (7.5A) | 75.0AH |
| 5 hour rate (13.6A) | 64.6AH |
| 3 hour rate (20.0A) | 60.0AH |
| 1 hour rate (48.0A) | 48.0AH |
| Capacity affected by Temperature | |
| 40°C(104°F) | 103% |
| 25°C(77°F) | 100% |
| 0°C(32°F) | 86% |

| Cycle Application |
|--|
| 1. Limit initial current less than 20.0A. |
| 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 0.48A 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 20.0A 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. |
| Maximum Discharge Current (5s): 725A |

Battery Discharge Table

| End Voltage (V) | Minute (M) | | | | | Hour (H) | | | | | | | |
|--|------------|------|------|------|------|----------|------|------|-------|-------|------|------|------|
| | 5 | 10 | 15 | 30 | 45 | 1 | 1.5 | 2 | 3 | 5 | 8 | 10 | 20 |
| Constant Current Discharge Data Sheet (Amperes at 25°C) | | | | | | | | | | | | | |
| 10.20 | 236 | 180 | 136 | 71.9 | 66.8 | 46.9 | 37.0 | 31.0 | 19.42 | 13.49 | 9.60 | 7.95 | 4.14 |
| 10.50 | 210 | 165 | 127 | 69.0 | 63.8 | 45.0 | 35.6 | 29.9 | 18.80 | 12.88 | 9.08 | 7.80 | 4.06 |
| 10.80 | 195 | 150 | 119 | 66.7 | 60.8 | 43.1 | 34.1 | 28.7 | 18.14 | 12.33 | 8.63 | 7.50 | 3.90 |
| Constant Power Discharge Data Sheet (Watt at 25°C) | | | | | | | | | | | | | |
| 10.20 | 2348 | 1988 | 1443 | 899 | 675 | 587 | 428 | 322 | 240 | 155 | 115 | 97.5 | 51.1 |
| 10.50 | 2258 | 1688 | 1296 | 878 | 660 | 578 | 421 | 311 | 232 | 150 | 113 | 94.5 | 49.5 |
| 10.80 | 2100 | 1575 | 1237 | 859 | 638 | 551 | 402 | 301 | 224 | 145 | 112 | 90.0 | 48.4 |

Performance Characteristics



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