

MinuteBank

VRLA AGM Battery

BT-HSE-80-12 [12V80Ah]



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

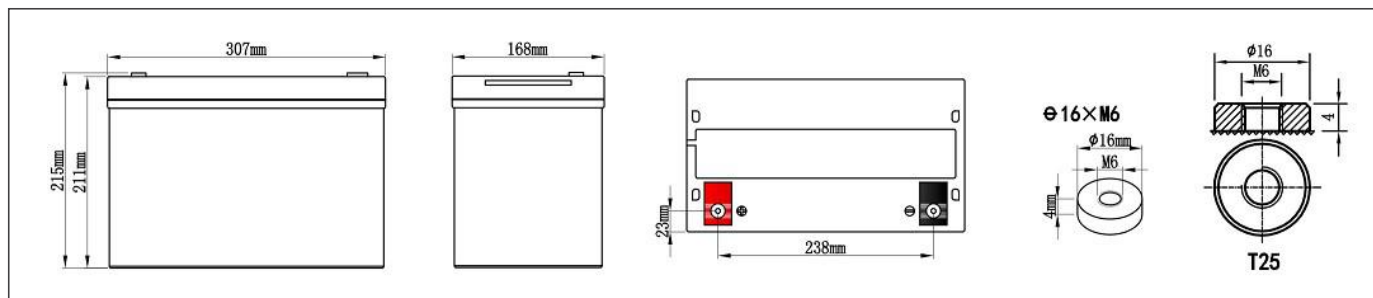
Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- 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 | 80AH | 307±3mm | 168±2mm | 211±3mm | 215±3mm | Approx 25.50kg (56.22lbs) | ≈4.7 mΩ | T25 (standard) |

Dimensions



Battery Discharge Table

| End Voltage (V) | Minute (M) | | | | | | Hour (H) | | | | | | | | | |
|--|------------|------|------|------|------|------|----------|------|------|-------|-------|-------|-------|-------|------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 20 |
| Constant Current Discharge Data Sheet (Amperes at 25°C) | | | | | | | | | | | | | | | | |
| 10.20 | 252 | 192 | 145 | 126 | 90.2 | 71.2 | 50.0 | 39.5 | 33.1 | 20.72 | 18.08 | 14.39 | 20.44 | 10.24 | 8.48 | 4.52 |
| 10.50 | 224 | 176 | 135 | 122 | 88.1 | 68.0 | 48.0 | 37.9 | 31.9 | 20.05 | 17.68 | 13.74 | 19.43 | 9.68 | 8.32 | 4.44 |
| 10.80 | 208 | 160 | 127 | 118 | 86.0 | 64.8 | 46.0 | 36.4 | 30.6 | 19.35 | 17.20 | 13.15 | 18.55 | 9.20 | 8.08 | 4.30 |
| Constant Power Discharge Data Sheet (Watt at 25°C) | | | | | | | | | | | | | | | | |
| 10.20 | 2504 | 2120 | 1540 | 1370 | 959 | 720 | 626 | 456 | 343 | 256 | 210 | 165 | 152 | 122 | 104 | 54.5 |
| 10.50 | 2408 | 1800 | 1434 | 1328 | 936 | 704 | 616 | 449 | 332 | 248 | 203 | 160 | 149 | 121 | 101 | 52.8 |
| 10.80 | 2240 | 1680 | 1348 | 1284 | 916 | 680 | 588 | 429 | 321 | 239 | 196 | 154 | 144 | 119 | 96.0 | 51.6 |

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

Constant-Voltage Charge

| Rated Capacity | |
|---------------------|--------|
| 20 hour rate (4.0A) | 83.5AH |
| 10 hour rate (8.0A) | 80.0AH |
| 5 hour rate (13.6A) | 68.0AH |
| 3 hour rate (20.0A) | 60.7AH |
| 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. |

Performance Characteristics

