

MinuteBank

VRLA AGM Battery

BT-HSE-180-12 [12V180Ah]



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

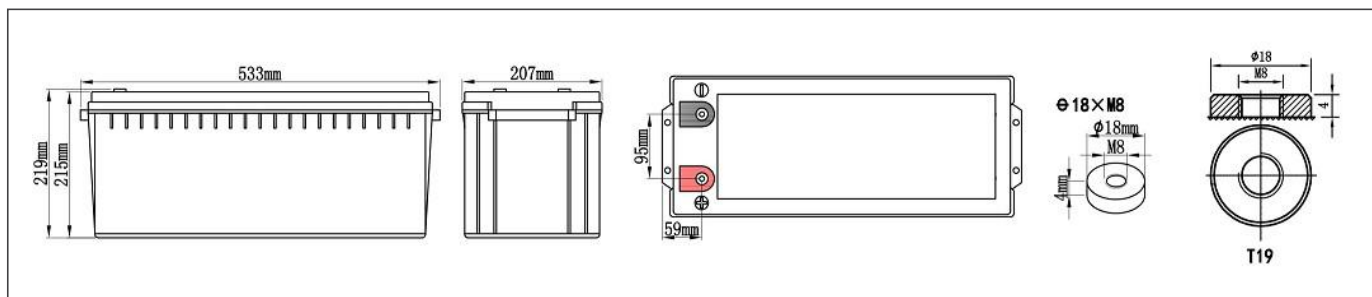
Application

- 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 | 180AH | 533±2mm | 207±2mm | 215±2mm | 219±2mm | Approx 53.0kg (116.84lbs) | ≈2.85mΩ | T19 (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 | 567 | 432 | 326 | 284 | 173 | 160 | 113 | 88.8 | 74.4 | 46.6 | 40.7 | 32.4 | 27.6 | 23.0 | 18.8 | 9.63 |
| 10.50 | 504 | 396 | 304 | 274 | 166 | 153 | 108 | 85.3 | 71.7 | 45.1 | 39.8 | 30.9 | 26.3 | 21.8 | 18.5 | 9.54 |
| 10.80 | 468 | 360 | 285 | 266 | 160 | 146 | 104 | 81.9 | 68.9 | 43.5 | 38.7 | 29.6 | 25.1 | 20.7 | 18.2 | 9.41 |
| Constant Power Discharge Data Sheet (Watt at 25°C) | | | | | | | | | | | | | | | | |
| 10.20 | 5634 | 4770 | 3433 | 3060 | 2157 | 1620 | 1408 | 1027 | 772 | 576 | 472 | 371 | 323 | 275 | 234 | 123 |
| 10.50 | 5418 | 4050 | 3082 | 2988 | 2107 | 1584 | 1386 | 1011 | 747 | 558 | 457 | 360 | 315 | 272 | 227 | 119 |
| 10.80 | 5040 | 3780 | 2942 | 2943 | 2061 | 1530 | 1323 | 965 | 722 | 538 | 441 | 347 | 306 | 268 | 216 | 116 |

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 (9.00A) | 190.0AH |
| 10 hour rate (18.00A) | 183.0AH |
| 5 hour rate (30.60A) | 155.0AH |
| 3 hour rate (45.00A) | 140.0AH |
| 1 hour rate (108.00A) | 110.0AH |
| 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 45.0A. |
| 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 0.24A 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 10A 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

