

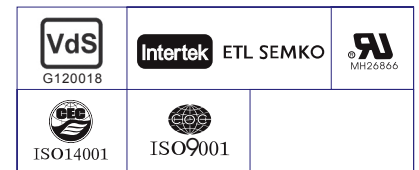
Specification

| | | |
|----------------------------------|--|--------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity | 45.0Ah | (C ₂₀ , 1.80V/cell) |
| Dimension | Length | 197±2mm (7.76 inches) |
| | Width | 165±2mm (6.50 inches) |
| | Container Height | 170±2mm (6.69 inches) |
| | Total Height (with Terminal) | 170±2mm (6.69 inches) |
| Approx Weight | Approx 14.5 kg (31.97 lbs) | |
| Terminal | M6 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 45.0 Ah | (20hr, 2.25A, 1.80V/cell) |
| | 42.0 Ah | (10hr, 4.20A, 1.80V/cell) |
| | 36.6 Ah | (5hr, 7.31A, 1.75V/cell) |
| | 32.7 Ah | (3hr, 10.9A, 1.75V/cell) |
| | 26.0 Ah | (1hr, 26.0A, 1.60V/cell) |
| Max. Discharge Current | 540A (5s) | |
| Internal Resistance | Approx 9.0mΩ | |
| Operating Temp. Range | Discharge | -15~50°C (5~122°F) |
| | Charge | 0~40°C (32~104°F) |
| | Storage | -15~40°C (5~104°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Cycle Use | Initial Charging Current less than 13.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| | Standby Use No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C | |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | Intact BP series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |



Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



Conform to:
IEC60896-21&22

Constant Current Discharge (Amperes) at 25 °C (77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | - | 49.1 | 41.3 | 36.7 | 30.4 | 23.5 | 20.1 | 13.0 | 9.77 | 8.01 | 6.74 | 5.90 | 4.73 | 4.07 | 2.17 |
| 1.80V/cell | - | 56.2 | 46.4 | 40.5 | 33.0 | 25.3 | 21.2 | 14.0 | 10.5 | 8.51 | 7.14 | 6.25 | 4.98 | 4.20 | 2.25 |
| 1.75V/cell | - | 63.9 | 52.3 | 44.8 | 35.9 | 27.6 | 23.1 | 14.5 | 10.9 | 8.80 | 7.31 | 6.45 | 5.15 | 4.31 | 2.30 |
| 1.70V/cell | - | 72.1 | 58.0 | 49.5 | 39.2 | 29.7 | 24.4 | 15.3 | 11.5 | 9.20 | 7.73 | 6.76 | 5.37 | 4.48 | 2.36 |
| 1.65V/cell | - | 77.5 | 62.1 | 52.6 | 41.4 | 31.5 | 25.3 | 15.9 | 12.0 | 9.56 | 7.97 | 6.99 | 5.55 | 4.60 | 2.44 |
| 1.60V/cell | - | 85.2 | 68.1 | 57.1 | 44.1 | 32.7 | 26.0 | 16.3 | 12.3 | 9.77 | 8.17 | 7.14 | 5.64 | 4.70 | 2.48 |

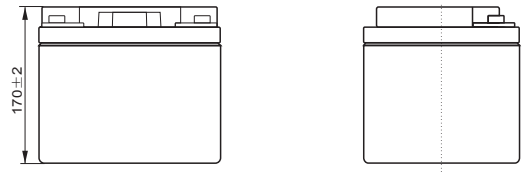
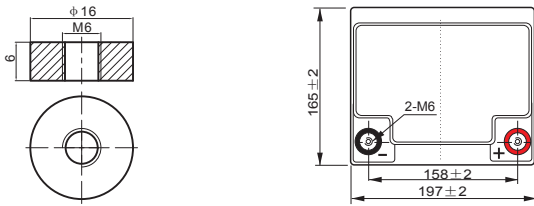
Constant Power Discharge (Watts) at 25 °C (77°F)

| F.V/Time | 5min | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | - | 91.8 | 77.9 | 69.8 | 58.6 | 45.6 | 39.1 | 25.5 | 19.2 | 15.8 | 13.3 | 11.7 | 9.44 | 8.14 | 4.34 |
| 1.80V/cell | - | 103.8 | 86.4 | 76.1 | 62.6 | 48.8 | 41.1 | 27.2 | 20.6 | 16.7 | 14.1 | 12.4 | 9.91 | 8.38 | 4.49 |
| 1.75V/cell | - | 116.0 | 96.2 | 83.3 | 67.5 | 52.7 | 44.6 | 28.2 | 21.3 | 17.2 | 14.4 | 12.7 | 10.2 | 8.60 | 4.60 |
| 1.70V/cell | - | 128.1 | 105.2 | 91.3 | 73.3 | 56.6 | 47.0 | 29.7 | 22.4 | 18.0 | 15.2 | 13.3 | 10.6 | 8.92 | 4.71 |
| 1.65V/cell | - | 136.3 | 111.8 | 96.4 | 76.7 | 59.3 | 48.3 | 30.6 | 23.2 | 18.6 | 15.6 | 13.7 | 11.0 | 9.16 | 4.85 |
| 1.60V/cell | - | 146.5 | 120.4 | 103.6 | 81.3 | 61.3 | 49.5 | 31.2 | 23.7 | 19.0 | 15.9 | 14.0 | 11.1 | 9.33 | 4.92 |

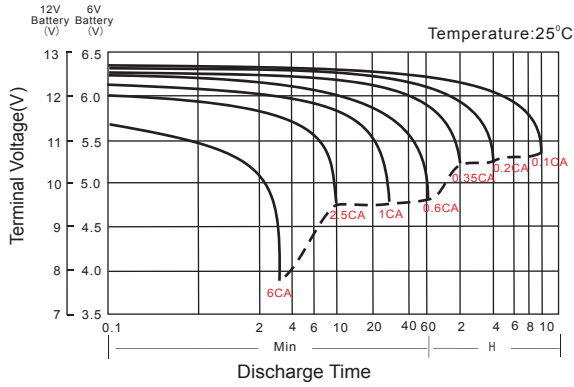


Dimensions

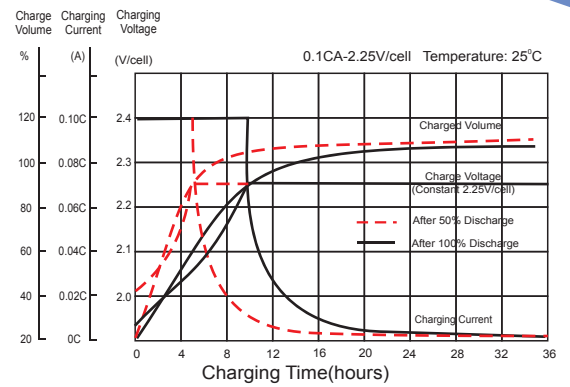
M6Terminal



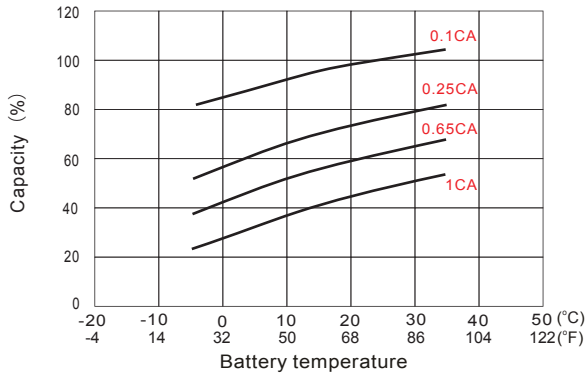
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

