

Specifications

| | | |
|----------------------------------|--|-------------------------------|
| Nominal Voltage | 6V | |
| Nominal Capacity (20HR) | 8AH | |
| Dimension | Length | 134mm (5.28 inches) |
| | Width | 49mm (1.94 inches) |
| | Height | 101mm (3.98 inches) |
| | Total Height (with Terminal) | 101mm (3.98 inches) |
| | Approximate Weight | 1.42 kg (3.13 lbs) |
| Battery Type | Valve Regulated Lead-Acid Battery, AGM Design | |
| Terminal Type | T2 | |
| Rated Capacity | 8.08AH | (20hr, 1.75V/cell, 25°C/77°F) |
| | 7.64AH | (10hr, 1.75V/cell, 25°C/77°F) |
| | 6.80AH | (5hr, 1.75V/cell, 25°C/77°F) |
| | 6.75AH | (3hr, 1.60V/cell, 25°C/77°F) |
| | 5.02AH | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 120A | |
| Internal Resistance | 11mΩ | |
| Operating Temp. Range | Discharge: | -20°C (-4°F)~50°C (122°F) |
| | Charge: | -20°C (-4°F)~50°C (122°F) |
| | Storage: | -20°C (-4°F)~40°C (104°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Container Material | ABS (Option: 94-HB & 94-V0 flame retardant case) | |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | SigmasTek SPM series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is recommended. For higher temperatures the time interval will be shorter. | |



Applications

- Uninterruptible Power Supply (UPS)
- Electric wheelchairs, scooters, bikes
- Electronic apparatus and equipment
- Alarm and security systems
- Emergency first responder equipment
- Emergency lighting
- Medical devices
- Electric carts
- Telecom equipment
- Switchgear
- Solar power systems



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

| F.V. (V/cell) \ Discharge Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|--------------------------------|------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| 1.60V | 30.9 | 21.0 | 15.5 | 9.20 | 5.02 | 2.92 | 2.25 | 1.48 | 0.969 | 0.804 | 0.419 |
| 1.65V | 28.0 | 19.3 | 14.5 | 8.71 | 4.98 | 2.80 | 2.19 | 1.43 | 0.960 | 0.795 | 0.417 |
| 1.70V | 25.4 | 17.9 | 13.7 | 8.26 | 4.86 | 2.76 | 2.10 | 1.39 | 0.945 | 0.779 | 0.411 |
| 1.75V | 23.1 | 16.4 | 12.8 | 7.94 | 4.71 | 2.69 | 2.04 | 1.36 | 0.932 | 0.764 | 0.404 |
| 1.80V | 20.4 | 14.9 | 11.7 | 7.64 | 4.51 | 2.60 | 2.00 | 1.32 | 0.916 | 0.744 | 0.400 |
| 1.85V | 15.2 | 11.7 | 9.69 | 6.48 | 4.02 | 2.38 | 1.86 | 1.23 | 0.864 | 0.722 | 0.396 |

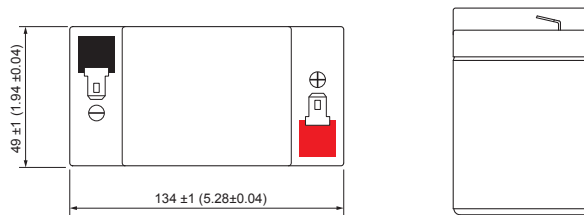
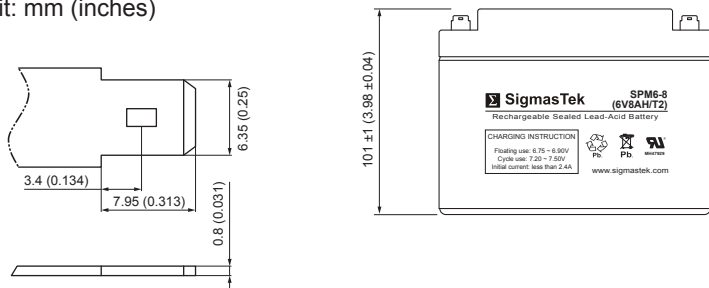
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

| F.V. (V/cell) \ Discharge Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|--------------------------------|------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 51.2 | 35.7 | 27.2 | 16.8 | 9.45 | 5.54 | 4.30 | 2.85 | 1.89 | 1.58 | 0.825 |
| 1.65V | 47.5 | 33.6 | 25.8 | 16.0 | 9.40 | 5.34 | 4.20 | 2.77 | 1.88 | 1.57 | 0.822 |
| 1.70V | 43.7 | 31.4 | 24.5 | 15.3 | 9.26 | 5.29 | 4.04 | 2.71 | 1.85 | 1.54 | 0.811 |
| 1.75V | 40.8 | 29.5 | 23.3 | 14.8 | 9.00 | 5.18 | 3.94 | 2.64 | 1.83 | 1.51 | 0.798 |
| 1.80V | 37.0 | 27.3 | 21.6 | 14.3 | 8.65 | 5.01 | 3.88 | 2.59 | 1.80 | 1.47 | 0.791 |
| 1.85V | 27.9 | 21.6 | 18.1 | 12.3 | 7.76 | 4.62 | 3.63 | 2.42 | 1.71 | 1.43 | 0.784 |

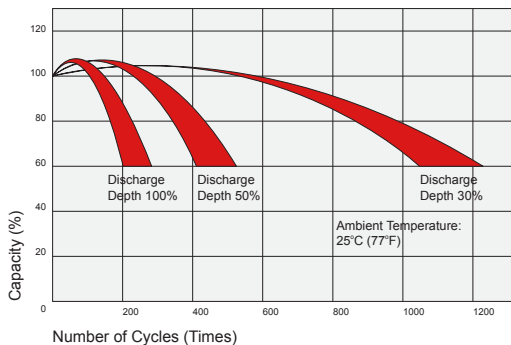
Dimensions

T2 Terminal

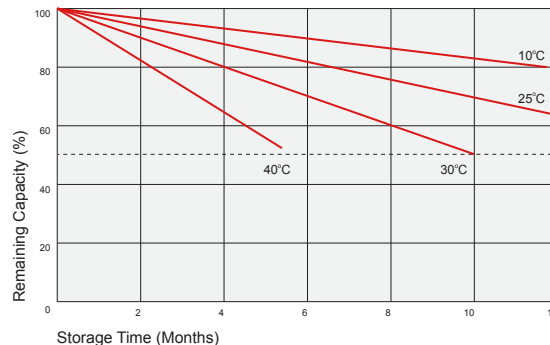
Unit: mm (inches)



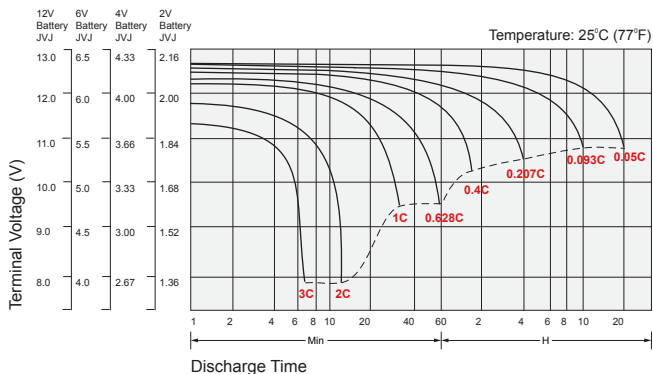
Cycle Service Life



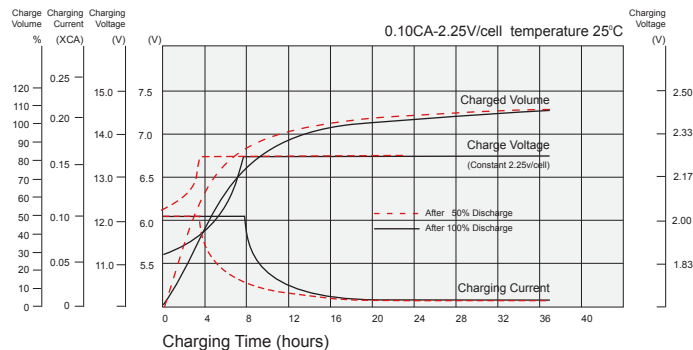
Self Discharge Characteristics



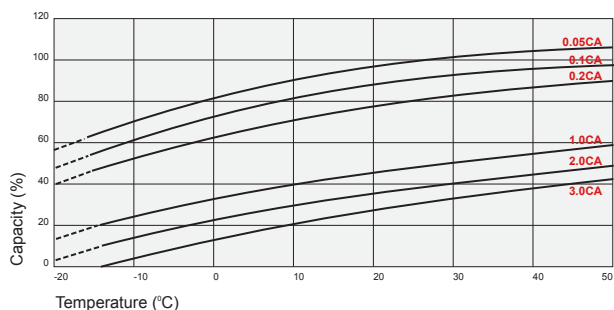
Discharge Characteristics



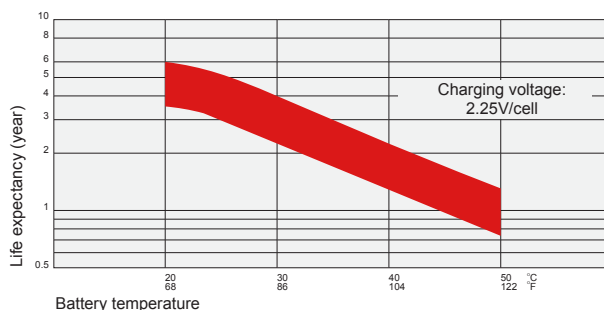
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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