

Specifications

| | | |
|----------------------------------|---|-------------------------------|
| Nominal Voltage | 6V | |
| Nominal Capacity (20HR) | 1.4AH | |
| Dimension | Length | 97mm (3.82 inches) |
| | Width | 24mm (0.94 inches) |
| | Height | 51mm (2.00 inches) |
| | Total Height (with Terminal) | 56mm (2.20 inches) |
| | Approximate Weight | 0.28 kg (0.62 lbs) |
| Battery Type | Valve Regulated Lead-Acid Battery, AGM Design | |
| Terminal Type | T1 | |
| Rated Capacity | 1.40AH | (20hr, 1.75V/cell, 25°C/77°F) |
| | 1.14AH | (10hr, 1.75V/cell, 25°C/77°F) |
| | 1.01AH | (5hr, 1.75V/cell, 25°C/77°F) |
| | 0.95AH | (3hr, 1.60V/cell, 25°C/77°F) |
| | 0.73AH | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 18A | |
| Internal Resistance | 65mΩ | |
| 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 SP 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 | 4.41 | 2.68 | 2.02 | 1.23 | 0.73 | 0.434 | 0.318 | 0.216 | 0.145 | 0.119 | 0.072 |
| 1.65V | 4.20 | 2.57 | 1.94 | 1.19 | 0.71 | 0.421 | 0.311 | 0.211 | 0.142 | 0.117 | 0.072 |
| 1.70V | 3.81 | 2.39 | 1.83 | 1.14 | 0.68 | 0.409 | 0.303 | 0.207 | 0.140 | 0.116 | 0.071 |
| 1.75V | 3.36 | 2.17 | 1.69 | 1.09 | 0.66 | 0.392 | 0.294 | 0.202 | 0.138 | 0.114 | 0.070 |
| 1.80V | 2.83 | 1.92 | 1.54 | 1.02 | 0.62 | 0.376 | 0.284 | 0.196 | 0.134 | 0.112 | 0.069 |
| 1.85V | 2.30 | 1.61 | 1.32 | 0.92 | 0.58 | 0.354 | 0.270 | 0.188 | 0.130 | 0.108 | 0.068 |

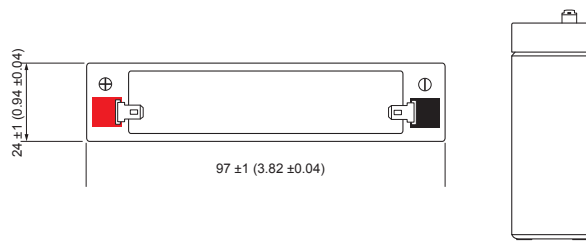
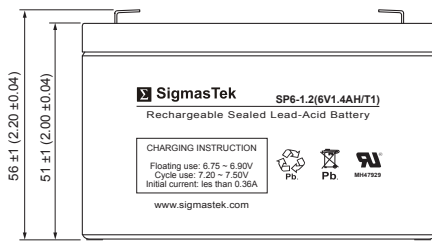
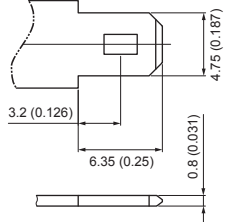
Constant Current Discharge (Watts Per Cell) at 25°C (77°F)

| F.V. (V/cell) \ Discharge Time | 5min | 10min | 15min | 30min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|--------------------------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| 1.60V | 7.79 | 4.82 | 3.70 | 2.30 | 1.39 | 0.834 | 0.615 | 0.419 | 0.284 | 0.234 | 0.124 |
| 1.65V | 7.54 | 4.69 | 3.59 | 2.26 | 1.37 | 0.814 | 0.604 | 0.413 | 0.280 | 0.231 | 0.124 |
| 1.70V | 6.93 | 4.42 | 3.43 | 2.19 | 1.33 | 0.796 | 0.592 | 0.406 | 0.277 | 0.229 | 0.122 |
| 1.75V | 6.18 | 4.05 | 3.20 | 2.10 | 1.28 | 0.768 | 0.577 | 0.399 | 0.274 | 0.226 | 0.121 |
| 1.80V | 5.28 | 3.61 | 2.93 | 1.98 | 1.22 | 0.741 | 0.560 | 0.390 | 0.269 | 0.224 | 0.121 |
| 1.85V | 4.35 | 3.06 | 2.55 | 1.80 | 1.14 | 0.701 | 0.536 | 0.377 | 0.261 | 0.217 | 0.120 |

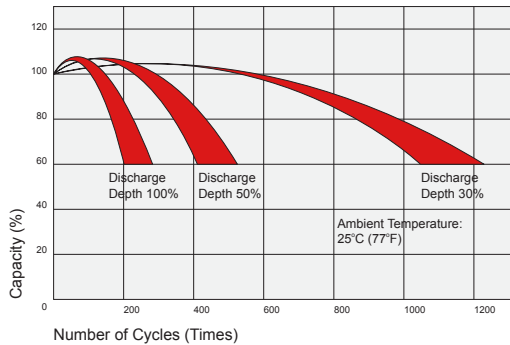
Dimensions

T1 Terminal

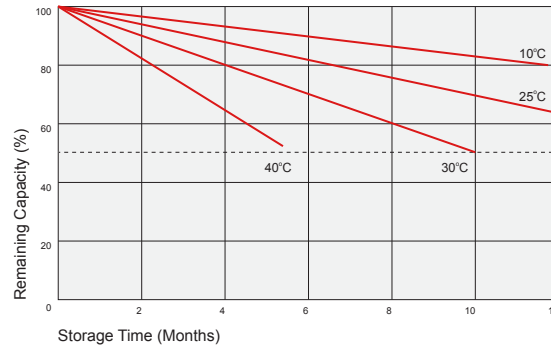
Unit: mm (inches)



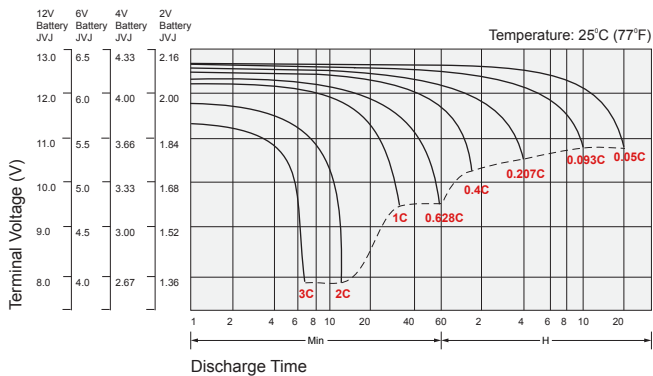
Cycle Service Life



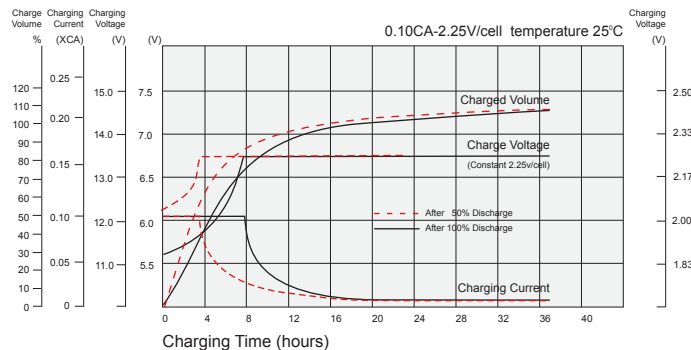
Self Discharge Characteristics



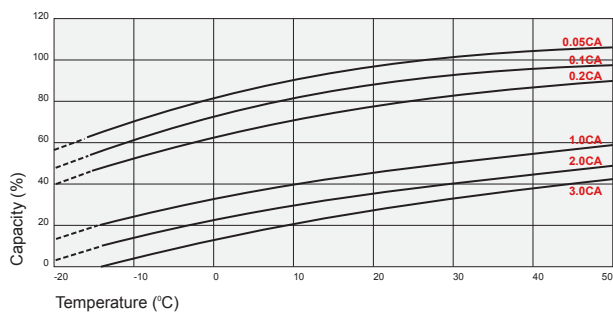
Discharge Characteristics



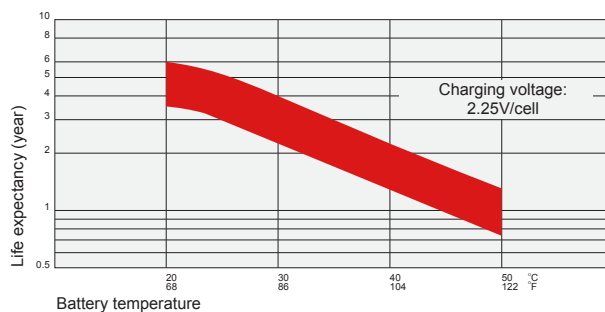
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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