

Specifications

| | | |
|----------------------------------|--|-------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity (8HR) | 125AH | |
| Dimension | Length | 551mm (21.69 inches) |
| | Width | 110mm (4.33 inches) |
| | Height | 287mm (11.30 inches) |
| | Total Height (with Terminal) | 287mm (11.30 inches) |
| | Approximate Weight | 40.5 kg (89.3 lbs) |
| Battery Type | Valve Regulated Lead-Acid Battery, AGM Design | |
| Terminal Type | IT | |
| Rated Capacity | 139.6AH | (20hr, 1.80V/cell, 25°C/77°F) |
| | 131.3AH | (10hr, 1.80V/cell, 25°C/77°F) |
| | 125.0AH | (8hr, 1.80V/cell, 25°C/77°F) |
| | 118.1AH | (5hr, 1.75V/cell, 25°C/77°F) |
| | 86.5AH | (1hr, 1.67V/cell, 25°C/77°F) |
| Max. Discharge Current | 1100A | |
| Internal Resistance | 3.2mΩ | |
| Operating Temp. Range | Discharge: | -15°C (5°F)~50°C (122°F) |
| | Charge: | 0°C (32°F)~40°C (104°F) |
| | Storage: | -15°C (5°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 SPF 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

- Standard 19 & 23 inch power cabinets
- Solar power stations
- Network communication equipment
- UPS and standby power supply
- Power station systems
- Railway and marine systems



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

| Discharge Time F.V. (V/cell) | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------------------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|------|
| 1.60V | 314.7 | 245.0 | 203.8 | 149.9 | 111.4 | 88.8 | 51.0 | 37.0 | 29.6 | 24.6 | 21.3 | 16.63 | 13.63 | 7.10 |
| 1.67V | 299.4 | 236.0 | 195.0 | 146.2 | 108.5 | 86.5 | 50.1 | 36.3 | 29.0 | 24.0 | 20.9 | 16.25 | 13.38 | 7.06 |
| 1.70V | 289.3 | 230.2 | 191.1 | 144.4 | 108.1 | 86.1 | 50.0 | 36.1 | 28.8 | 23.8 | 20.6 | 16.04 | 13.25 | 7.03 |
| 1.75V | 270.5 | 218.6 | 183.7 | 140.3 | 105.7 | 85.0 | 49.3 | 35.7 | 28.6 | 23.6 | 20.4 | 15.81 | 13.13 | 6.98 |
| 1.80V | 246.5 | 202.0 | 172.1 | 133.5 | 101.8 | 82.1 | 48.4 | 35.1 | 27.9 | 23.1 | 20.1 | 15.63 | 12.98 | 6.87 |
| 1.85V | 217.4 | 181.2 | 155.5 | 122.0 | 94.60 | 76.9 | 45.9 | 33.0 | 26.5 | 21.9 | 19.1 | 14.87 | 12.41 | 6.57 |

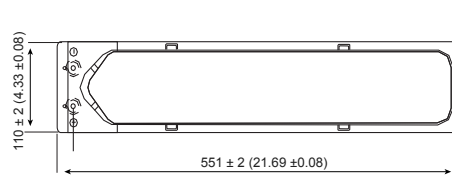
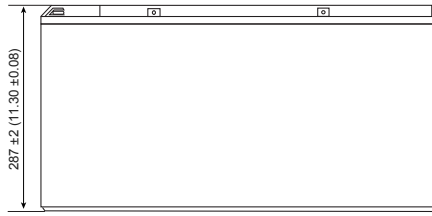
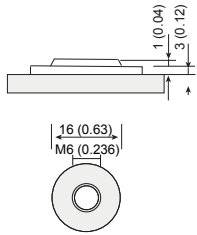
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

| Discharge Time F.V. (V/cell) | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|
| 1.60V | 541.3 | 433.6 | 369.3 | 276.2 | 208.8 | 168.6 | 97.8 | 71.4 | 57.5 | 48.0 | 41.6 | 32.8 | 27.1 | 14.12 |
| 1.67V | 529.5 | 426.0 | 358.5 | 273.0 | 205.6 | 166.0 | 97.0 | 70.4 | 56.6 | 47.0 | 41.0 | 32.2 | 26.6 | 14.07 |
| 1.70V | 513.7 | 417.4 | 352.7 | 270.1 | 205.6 | 165.7 | 96.9 | 70.2 | 56.3 | 46.5 | 40.6 | 31.8 | 26.4 | 14.01 |
| 1.75V | 491.2 | 401.8 | 341.6 | 263.9 | 201.7 | 164.0 | 95.7 | 69.6 | 56.0 | 46.4 | 40.2 | 31.4 | 26.2 | 13.92 |
| 1.80V | 454.8 | 375.8 | 323.1 | 253.2 | 196.1 | 159.1 | 94.3 | 68.8 | 54.8 | 45.5 | 39.7 | 31.1 | 25.9 | 13.73 |
| 1.85V | 405.9 | 341.8 | 296.3 | 234.9 | 183.7 | 149.9 | 90.0 | 65.0 | 52.4 | 43.5 | 37.9 | 29.7 | 24.8 | 13.15 |

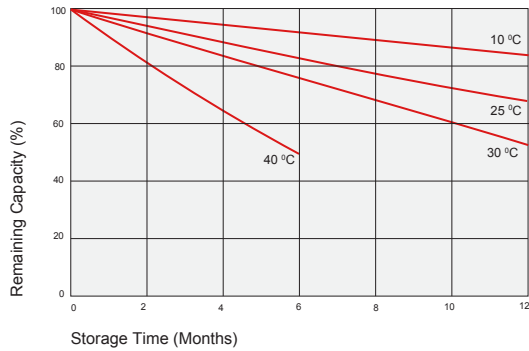
Dimensions

IT Terminal

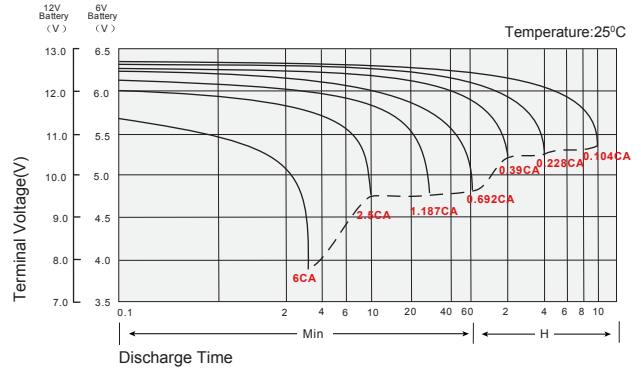
Unit: mm (inches)



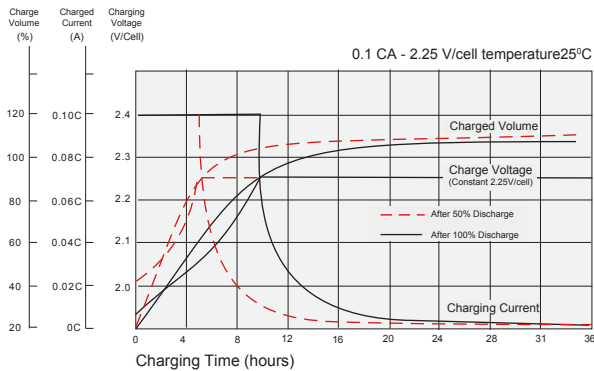
Self Discharge Characteristics



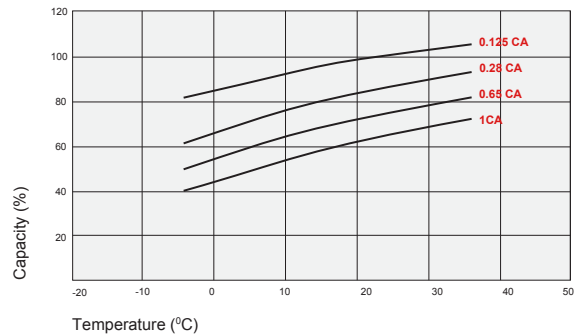
Discharge Characteristics



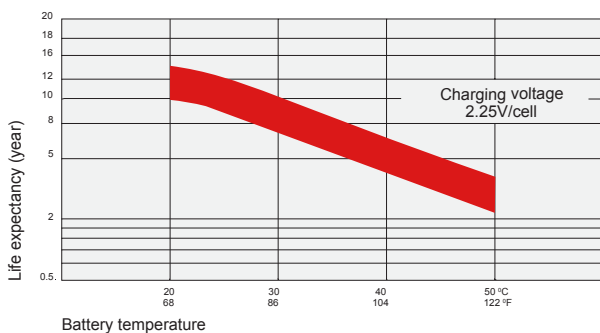
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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