

Specifications

| | | |
|----------------------------------|--|-------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity (8HR) | 150AH | |
| Dimension | Length | 560mm (22.05 inches) |
| | Width | 110mm (4.33 inches) |
| | Height | 280mm (11.02 inches) |
| | Total Height (with Terminal) | 280mm (11.02 inches) |
| | Approximate Weight | 43.8 kg (96.6 lbs) |
| Battery Type | Valve Regulated Lead-Acid Battery, AGM Design | |
| Terminal Type | IT | |
| Rated Capacity | 165.0AH | (20hr, 1.80V/cell, 25°C/77°F) |
| | 155.7AH | (10hr, 1.80V/cell, 25°C/77°F) |
| | 150.0AH | (8hr, 1.80V/cell, 25°C/77°F) |
| | 141.5AH | (5hr, 1.75V/cell, 25°C/77°F) |
| | 103.8AH | (1hr, 1.67V/cell, 25°C/77°F) |
| Max. Discharge Current | 1200A | |
| Internal Resistance | 3.0mΩ | |
| 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)

| F.V. (V/cell) \ Discharge Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|--------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|------|
| 1.60V | 377.7 | 294.0 | 244.5 | 179.9 | 133.6 | 106.5 | 61.2 | 44.4 | 35.6 | 29.6 | 25.5 | 19.95 | 16.35 | 8.52 |
| 1.67V | 359.3 | 283.1 | 234.1 | 175.4 | 130.2 | 103.8 | 60.2 | 43.5 | 34.8 | 28.8 | 25.1 | 19.50 | 16.05 | 8.48 |
| 1.70V | 347.2 | 276.3 | 229.3 | 173.2 | 129.7 | 103.4 | 60.0 | 43.3 | 34.5 | 28.5 | 24.8 | 19.25 | 15.90 | 8.43 |
| 1.75V | 324.6 | 262.3 | 220.4 | 168.3 | 126.8 | 102.0 | 59.2 | 42.8 | 34.3 | 28.3 | 24.5 | 18.98 | 15.75 | 8.37 |
| 1.80V | 295.8 | 242.4 | 206.6 | 160.2 | 122.1 | 98.50 | 58.0 | 42.2 | 33.5 | 27.7 | 24.1 | 18.75 | 15.57 | 8.25 |
| 1.85V | 260.9 | 217.5 | 186.6 | 146.4 | 113.5 | 92.30 | 55.0 | 39.6 | 31.8 | 26.3 | 22.9 | 17.85 | 14.89 | 7.89 |

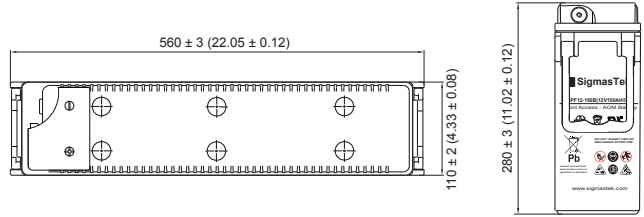
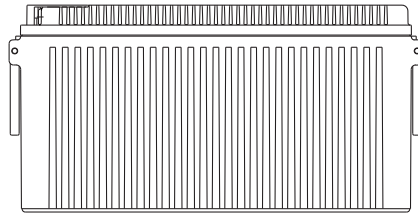
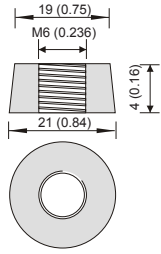
Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

| F.V. (V/cell) \ Discharge Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V | 649.5 | 520.3 | 443.1 | 331.5 | 250.5 | 202.4 | 117.3 | 85.7 | 69.0 | 57.6 | 49.9 | 39.4 | 32.5 | 16.95 |
| 1.67V | 635.4 | 511.2 | 430.2 | 327.6 | 246.8 | 199.2 | 116.4 | 84.5 | 67.9 | 56.4 | 49.2 | 38.6 | 31.9 | 16.88 |
| 1.70V | 616.5 | 500.9 | 423.2 | 324.1 | 246.7 | 198.8 | 116.2 | 84.2 | 67.5 | 55.8 | 48.7 | 38.1 | 31.7 | 16.81 |
| 1.75V | 589.5 | 482.2 | 409.9 | 316.6 | 242.0 | 196.8 | 114.9 | 83.5 | 67.2 | 55.7 | 48.2 | 37.6 | 31.4 | 16.70 |
| 1.80V | 545.8 | 451.0 | 387.8 | 303.8 | 235.3 | 190.9 | 113.1 | 82.6 | 65.8 | 54.6 | 47.6 | 37.3 | 31.1 | 16.48 |
| 1.85V | 487.1 | 410.2 | 355.5 | 281.9 | 220.4 | 179.8 | 108.0 | 78.0 | 62.8 | 52.2 | 45.5 | 35.6 | 29.8 | 15.78 |

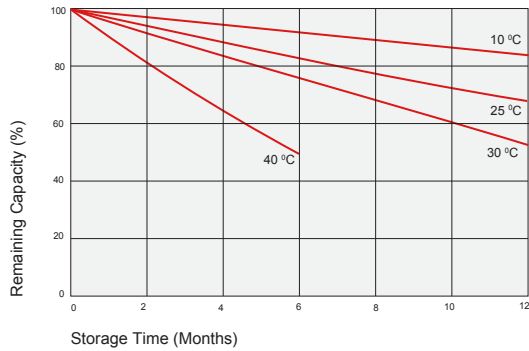
Dimensions

IT Terminal

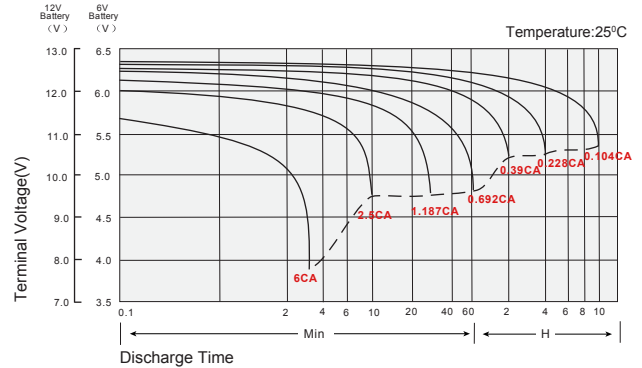
Unit: mm (inches)



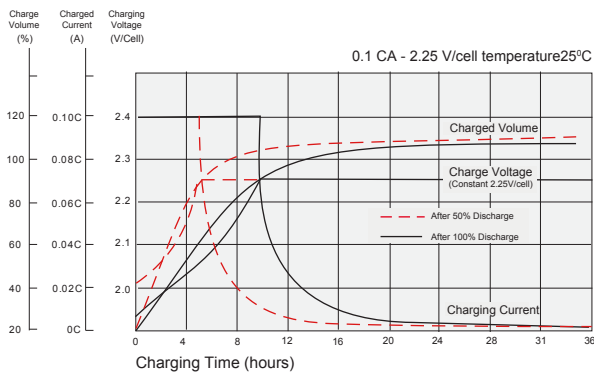
Self Discharge Characteristics



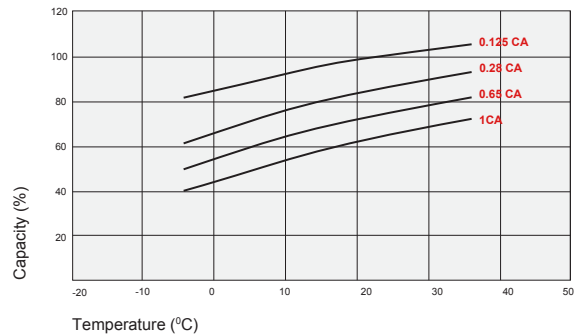
Discharge Characteristics



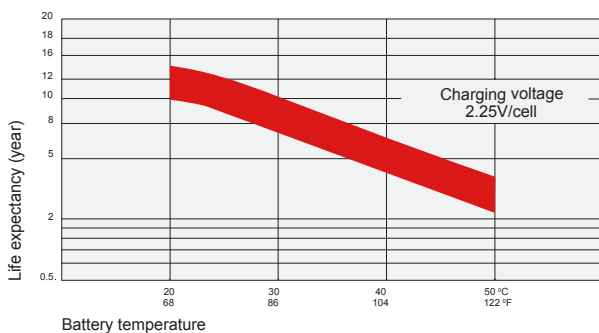
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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