

### Specifications

|                                  |   |                               |
|----------------------------------|---|-------------------------------|
| Nominal Voltage                  | 12V   |                               |
| Nominal Capacity (20HR)          | 15AH  |                               |
| Dimension                        | Length  | 151mm (5.95 inches)           |
|                                  | Width   | 98mm (3.86 inches)            |
|                                  | Height  | 94mm (3.70 inches)            |
|                                  | Total Height (with Terminal)  | 100mm (3.94 inches)           |
|                                  | Approximate Weight  | 4.25 kg (9.37 lbs)            |
| Battery Type                     | Valve Regulated Lead-Acid Battery, AGM Design   |                               |
| Terminal Type                    | T2  |                               |
| Rated Capacity                   | 14.0AH  | (20hr, 1.75V/cell, 25°C/77°F) |
|                                  | 12.8AH  | (10hr, 1.75V/cell, 25°C/77°F) |
|                                  | 12.1AH  | (5hr, 1.75V/cell, 25°C/77°F)  |
|                                  | 12.1AH  | (3hr, 1.60V/cell, 25°C/77°F)  |
|                                  | 10.4AH  | (1hr, 1.60V/cell, 25°C/77°F)  |
| Max. Discharge Current           | 175A  |                               |
| Internal Resistance              | 15mΩ  |                               |
| 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                          | 62.0 | 40.6  | 32.0  | 18.3  | 10.4 | 5.77 | 4.04 | 2.54 | 1.63 | 1.33 | 0.73 |
| 1.67V                          | 60.0 | 39.8  | 31.3  | 18.2  | 10.3 | 5.70 | 3.97 | 2.50 | 1.61 | 1.32 | 0.72 |
| 1.70V                          | 57.5 | 38.9  | 30.6  | 17.8  | 10.2 | 5.62 | 3.90 | 2.46 | 1.59 | 1.30 | 0.71 |
| 1.75V                          | 54.5 | 37.5  | 29.9  | 17.5  | 10.0 | 5.54 | 3.83 | 2.42 | 1.56 | 1.28 | 0.70 |
| 1.80V                          | 47.1 | 34.7  | 29.3  | 17.2  | 9.70 | 5.44 | 3.75 | 2.37 | 1.53 | 1.25 | 0.69 |

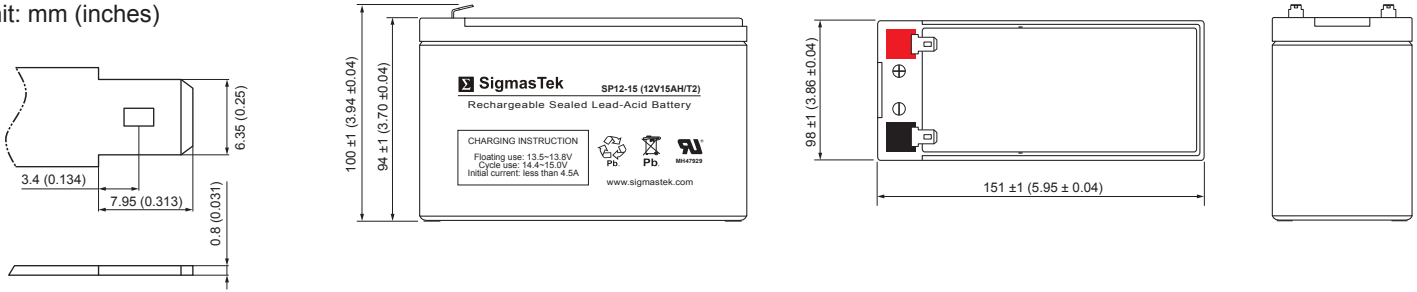
### Constant Power Discharge (Watts Per Cell) at 25°C (77°F)

| F.V. (V/cell) \ Discharge Time | 5min  | 10min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|--------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V                          | 112.7 | 73.9  | 56.9  | 33.3  | 19.1 | 10.6 | 7.48 | 4.75 | 2.88 | 2.52 | 1.28 |
| 1.67V                          | 109.6 | 72.5  | 55.7  | 33.0  | 18.7 | 10.4 | 7.36 | 4.66 | 2.83 | 2.48 | 1.26 |
| 1.70V                          | 104.7 | 70.8  | 54.9  | 32.6  | 18.2 | 10.2 | 7.32 | 4.60 | 2.80 | 2.45 | 1.25 |
| 1.75V                          | 99.13 | 68.3  | 52.9  | 32.0  | 17.9 | 10.1 | 7.15 | 4.53 | 2.75 | 2.40 | 1.25 |
| 1.80V                          | 85.66 | 63.1  | 50.5  | 31.5  | 17.6 | 9.83 | 6.96 | 4.45 | 2.68 | 2.36 | 1.23 |

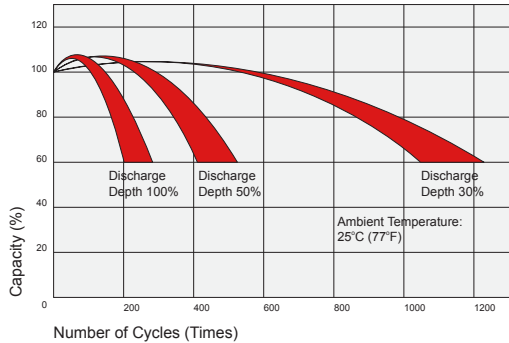
## Dimensions

### T2 Terminal

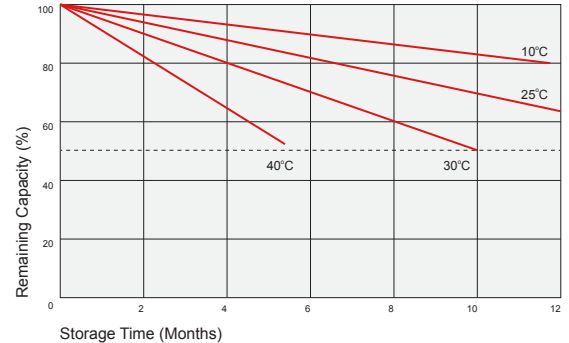
Unit: mm (inches)



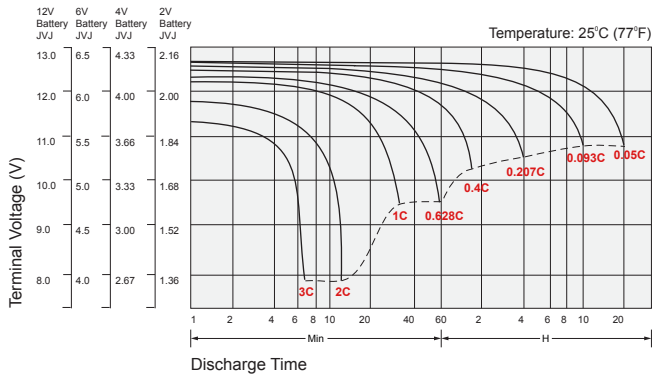
## Cycle Service Life



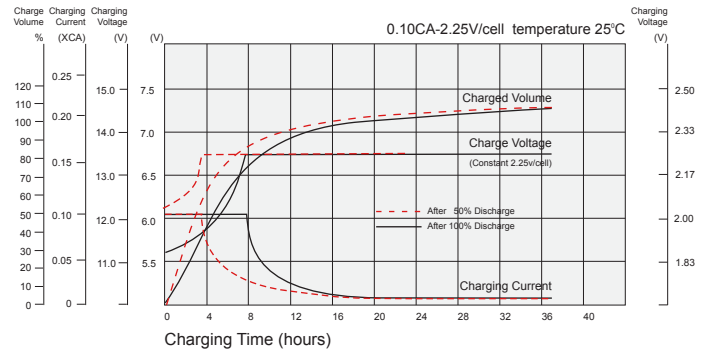
## Self Discharge Characteristics



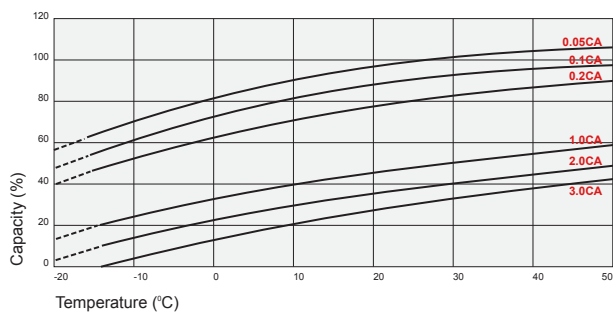
## Discharge Characteristics



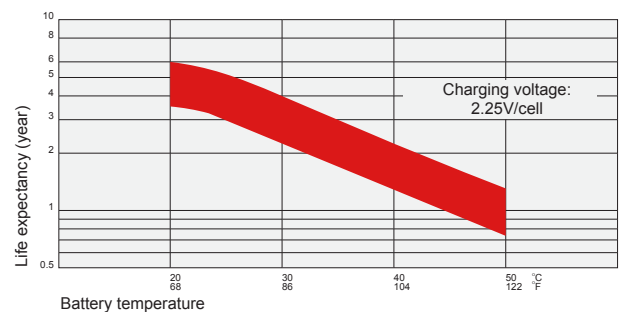
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Temperature Effects on Long Term Float Life



## Contact Information

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