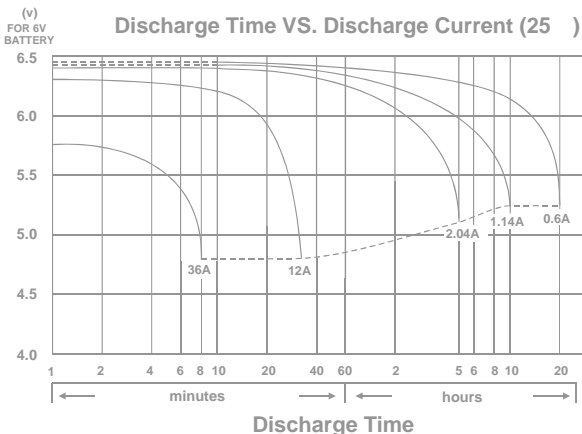
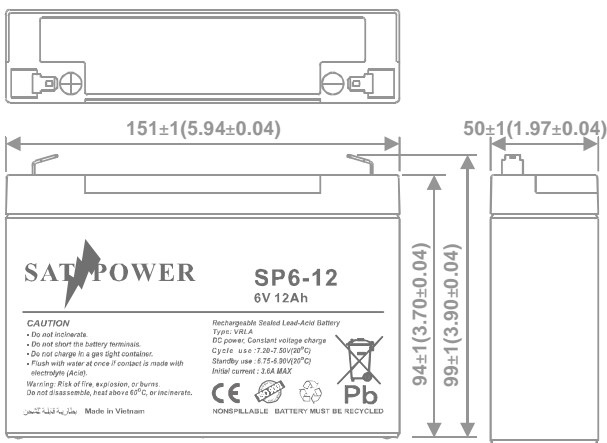
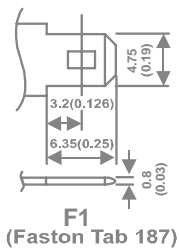




## Dimensions mm(inch)



## SP6-12

### Specifications

Nominal Voltage(V) **6V**

#### Nominal Capacity

|              |         |    |        |        |
|--------------|---------|----|--------|--------|
| 20 hour rate | (0.6A   | to | 5.25V) | 12Ah   |
| 10 hour rate | (1.14 A | to | 5.25V) | 11.4Ah |
| 5 hour rate  | (2.04A  | to | 5.1V)  | 10.2Ah |
| 1 C          | (12A    | to | 4.8V)  | 6.8Ah  |
| 3 C          | (36A    | to | 4.8V)  | 4.8Ah  |

Weight **Approx. 1.9kg(4.18Lbs.)**

Internal Resistance (at 1KHz) **Approx. 10 mΩ**

#### Maximum Discharge Current for

5 seconds: **180A**

#### Charging Methods at 25 (77 °C)

Cycle use:

|                            |               |
|----------------------------|---------------|
| Charging Voltage           | 7.20 to 7.50V |
| Coefficient -5.0mv/°C      | /cell         |
| Maximum Charging Current : | 3.6A          |
| Standby use:               |               |
| Float Charging Voltage     | 6.75 to 6.90V |
| Coefficient -3.0mv/°C      | /cell         |

#### Operating Temperature Range

|           |            |    |             |
|-----------|------------|----|-------------|
| Charge    | -15 (5 °C) | to | 40 (104 °F) |
| Discharge | -15 (5 °C) | to | 50 (122 °F) |
| Storage   | -15 (5 °C) | to | 40 (104 °F) |

#### Charge Retention (shelf life) at 20 (68 °C)

|         |     |
|---------|-----|
| 1 month | 92% |
| 3 month | 90% |
| 6 month | 80% |

Case Material **ABS**  
**(UL94 HB)**

Terminal **F1 (Faston Tab 187)**

### Applications

- UPS System
- Alarm Systems & Security equipment
- Telephone & telecom equipment
- Emergency lighting
- Fire & gas detection devices
- Portable measuring instruments
- Medical equipment
- Portable video cameras & television
- Solar systems
- Power tools

- PERFORMANCE DATA

**Discharge Rates in Amperes to Various End Voltages at 25 (77 )**

| Time | End Voltage | 1.85V | 1.8V  | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5    | min         | 37.2  | 41.4  | 44.5  | 47.7  | 49.1  | 50.6  | 53.4  |
| 10   | min         | 25.7  | 28.1  | 29.4  | 30.7  | 31.2  | 31.9  | 32.7  |
| 15   | min         | 20.3  | 21.6  | 22.4  | 23.2  | 23.5  | 23.8  | 24.5  |
| 30   | min         | 11.4  | 12.1  | 12.6  | 13.0  | 13.1  | 13.3  | 13.5  |
| 60   | min         | 8.21  | 8.40  | 8.52  | 8.63  | 8.68  | 8.74  | 8.82  |
| 120  | min         | 4.21  | 4.36  | 4.47  | 4.56  | 4.59  | 4.63  | 4.68  |
| 180  | min         | 2.87  | 3.06  | 3.13  | 3.19  | 3.22  | 3.25  | 3.29  |
| 240  | min         | 2.38  | 2.43  | 2.47  | 2.52  | 2.55  | 2.58  | 2.62  |
| 300  | min         | 1.97  | 2.03  | 2.08  | 2.14  | 2.16  | 2.19  | 2.23  |
| 600  | min         | 1.16  | 1.18  | 1.20  | 1.22  | 1.23  | 1.24  | 1.25  |
| 1200 | min         | 0.592 | 0.599 | 0.618 | 0.627 | 0.634 | 0.642 | 0.656 |

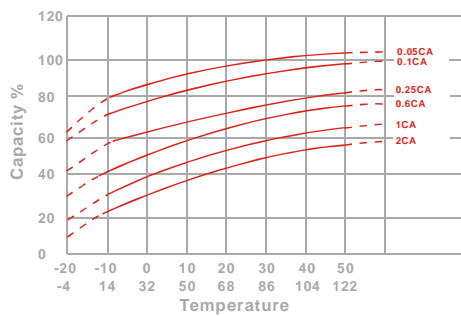
**Discharge Rates in Watts to Various End Voltages at 25 (77 )**

| Time | End Voltage | 1.85V | 1.8V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|------|-------|-------|-------|-------|-------|
| 5    | min         | 203   | 226  | 243   | 260   | 268   | 276   | 291   |
| 10   | min         | 144   | 157  | 165   | 172   | 175   | 179   | 183   |
| 15   | min         | 116   | 123  | 128   | 132   | 134   | 136   | 140   |
| 30   | min         | 66.7  | 70.8 | 73.9  | 76.2  | 77.0  | 77.8  | 79.0  |
| 60   | min         | 47.4  | 49.0 | 50.0  | 51.0  | 51.5  | 51.9  | 52.5  |
| 120  | min         | 25.9  | 26.8 | 27.1  | 27.4  | 27.6  | 27.7  | 28.0  |
| 180  | min         | 17.0  | 17.6 | 18.2  | 18.6  | 18.8  | 19.1  | 19.3  |
| 240  | min         | 14.3  | 14.6 | 14.9  | 15.2  | 15.4  | 15.6  | 15.8  |
| 300  | min         | 11.9  | 12.2 | 12.5  | 12.9  | 13.0  | 13.1  | 13.4  |
| 600  | min         | 7.02  | 7.20 | 7.32  | 7.40  | 7.45  | 7.50  | 7.56  |
| 1200 | min         | 3.58  | 3.62 | 3.74  | 3.79  | 3.84  | 3.88  | 3.97  |

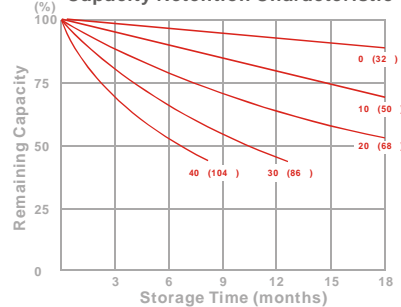
All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min X<10min(+12%~-12%),10min X < 60min(+8%~-8%), X 60min(+5%~-5%)

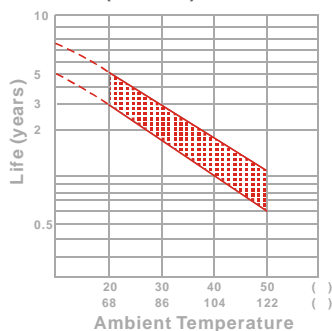
**Effect of Temperature on Capacity 25 (77 )**



**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**

