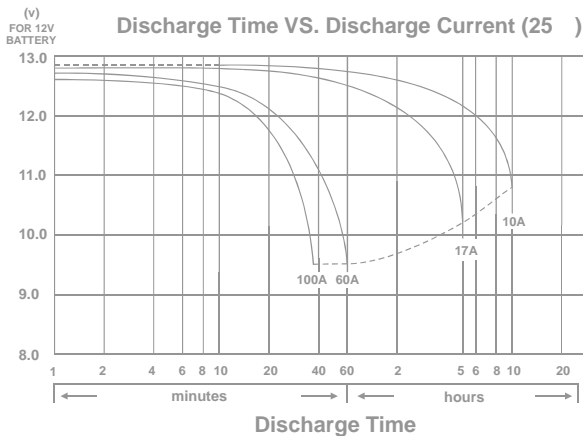
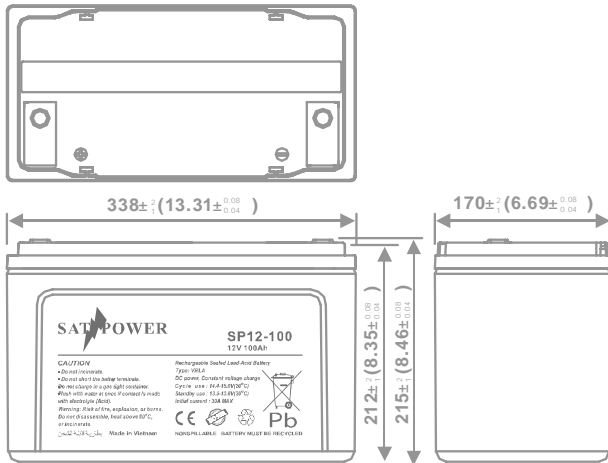
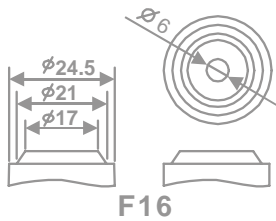




## Dimensions mm(inch)



# SP12-100

## Specifications

Nominal Voltage(V) 12V

### Nominal Capacity

10 hour rate	(10A	to	10.80V)	100Ah
5 hour rate	(17A	to	10.20V)	85Ah
1 hour rate	(60A	to	9.60V)	60Ah
1 C	(100A	to	9.60V)	63.33Ah

Weight Approx. 32.5kg(71.5Lbs.)

Internal Resistance (at 1KHz) Approx. 5 mΩ

### Maximum Discharge Current for

5 seconds: 1200A

### Charging Methods at 25 °C (77 °F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/°C /cell

Maximum Charging Current : 30A

Standby use:

Float Charging Voltage 13.5 to 13.8V

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 °C (68 °F)

1 month 98%

3 month 94%

6 month 85%

Case Material

ABS

(UL94 HB)

Terminal

F16

### Description of torque value of hard ware for the terminals:

Recommended torque value M6: 5.39 N-m (55kg-cm)

Maximum allowable torque value M6: 8.82 N-m (90kg-cm)

## 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	209	274	312	343	353	365	382
10	min	157	186	207	224	232	241	255
15	min	116	143	162	176	181	187	195
30	min	62.3	74.7	83.1	91.7	93.9	97.3	102
60	min	43.2	51.4	57.1	61.2	62.1	63.6	65.5
120	min	24.1	28.2	31.4	34.5	35.3	36.2	37.4
180	min	20.7	23.1	24.9	26.4	26.9	27.5	28.3
240	min	16.6	18.4	19.7	20.6	20.9	21.3	21.8
300	min	15.3	16.5	17.4	17.9	18.1	18.3	18.6
600	min	10.1	10.4	10.6	10.8	10.9	11.1	11.3
1200	min	5.08	5.25	5.42	5.54	5.59	5.65	5.73

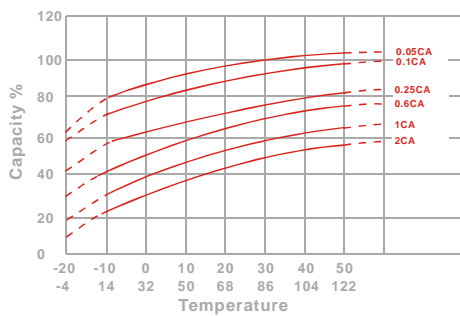
**Discharge Rates in Watts to Various End Voltages at 25 (77 )**

Time	End Voltage	1.85V	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	2841	3163	3384	3595	3692	3794	3986
10	min	2064	2258	2417	2569	2634	2708	2839
15	min	1627	1774	1886	1994	2042	2093	2184
30	min	959	1023	1077	1128	1149	1176	1218
60	min	694	721	739	756	763	772	783
120	min	378	397	412	421	427	434	443
180	min	287	303	314	325	329	334	341
240	min	212	225	237	249	253	258	264
300	min	193	202	210	216	218	221	225
600	min	115	122	127	132	134	136	138
1200	min	63.2	65.4	67.1	68.3	68.8	69.4	70.2

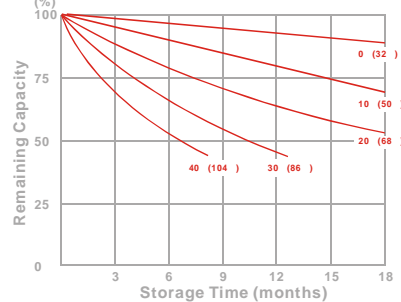
All data on the spec. sheet is an average value:

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

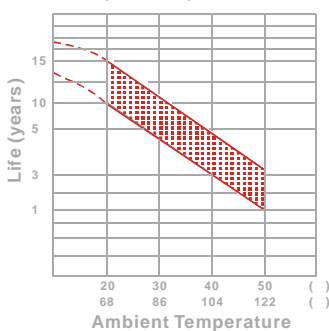
**Effect of Temperature on Capacity 25 (77 )**



**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**

