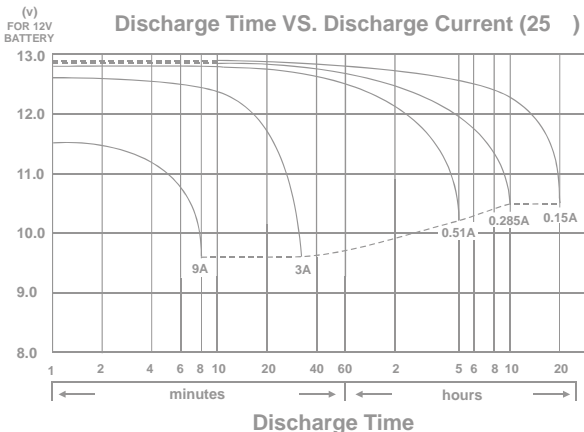
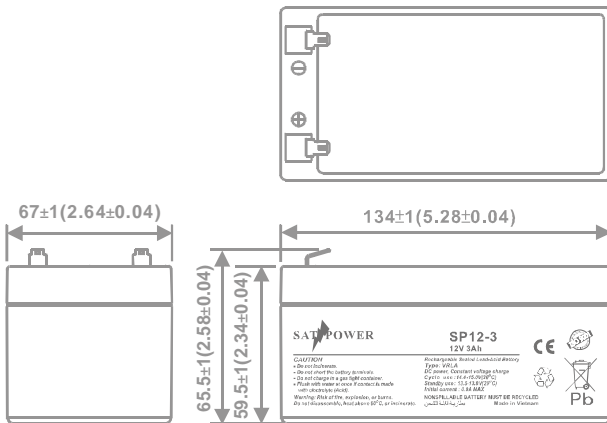
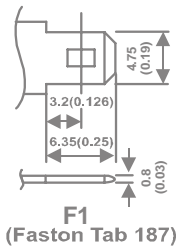




Dimensions mm(inch)



SP12-3

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(0.15A	to	10.50V)	3Ah
10 hour rate	(0.285A	to	10.50V)	2.85Ah
5 hour rate	(0.51A	to	10.20V)	2.55Ah
1 C	(3A	to	9.60V)	1.6Ah
3 C	(9A	to	9.60V)	1.05Ah

Weight **Approx. 1.3kg(2.86Lbs.)**

Internal Resistance (at 1KHz) **Approx. 45 mΩ**

Maximum Discharge Current for 5 seconds: **45A**

Charging Methods at 25 °C (77 °F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient -5.0mv/°C /cell	
Maximum Charging Current :	0.9A
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	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)

End Voltage		1.85V	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	7.95	9.24	10.3	11.1	11.5	12.0	12.6
10	min	5.87	6.52	7.07	7.46	7.62	7.79	8.08
15	min	4.49	5.03	5.37	5.71	5.86	6.02	6.23
30	min	2.56	2.87	3.03	3.10	3.12	3.14	3.17
60	min	1.54	1.72	1.81	1.88	1.92	1.94	1.99
120	min	0.945	0.993	1.04	1.08	1.10	1.12	1.15
180	min	0.679	0.718	0.752	0.786	0.807	0.826	0.861
240	min	0.556	0.581	0.604	0.625	0.634	0.646	0.663
300	min	0.472	0.493	0.511	0.526	0.533	0.542	0.554
600	min	0.273	0.289	0.301	0.306	0.308	0.311	0.313
1200	min	0.147	0.154	0.158	0.161	0.163	0.165	0.167

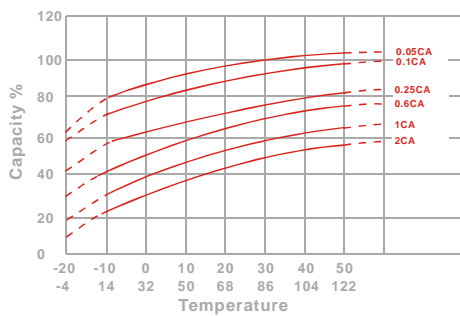
Discharge Rates in Watts to Various End Voltages at 25 (77)

End Voltage		1.85V	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	94.2	106	114	121	125	128	132
10	min	68.1	74.7	80.1	84.1	86.2	87.9	90.0
15	min	51.8	57.6	60.5	63.7	65.3	67.0	69.1
30	min	30.2	33.1	34.9	37.1	37.9	38.6	39.2
60	min	17.3	19.2	20.6	21.8	22.4	22.8	23.3
120	min	10.2	11.1	11.9	12.7	13.1	13.5	14.1
180	min	7.62	8.73	9.34	9.76	9.94	10.2	10.6
240	min	5.81	6.53	7.02	7.26	7.39	7.61	7.95
300	min	4.94	5.55	5.97	6.17	6.28	6.41	6.62
600	min	3.28	3.49	3.58	3.65	3.69	3.72	3.77
1200	min	1.79	1.85	1.90	1.92	1.93	1.95	1.98

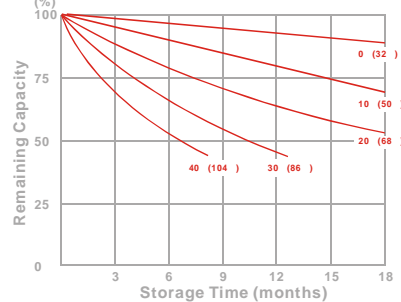
All data on the spec. sheet is an average value:

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

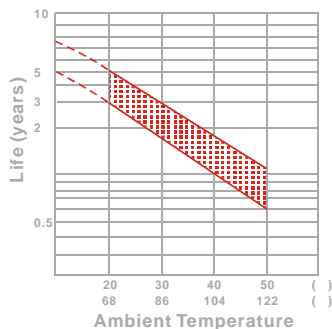
Effect of Temperature on Capacity 25 (77)



Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life

