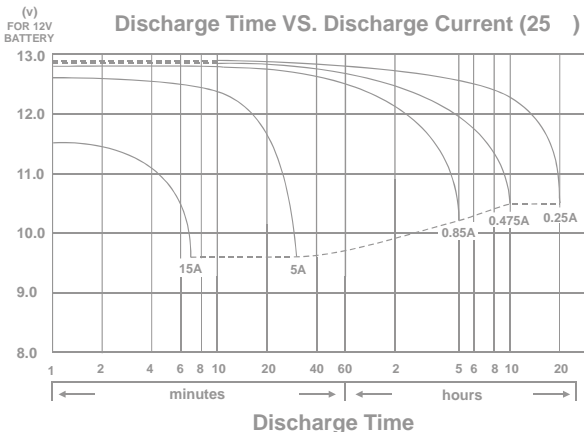
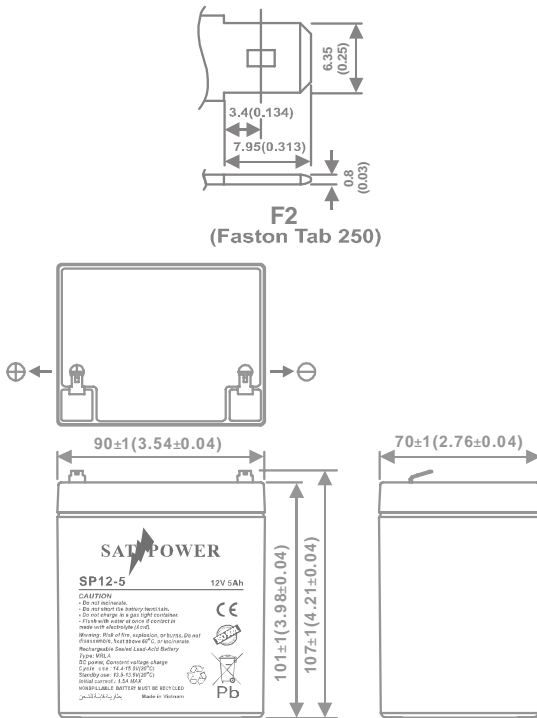


SAT POWER



Dimensions mm(inch)



SP12-5

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(0.25A	to	10.50V)	5Ah
10 hour rate	(0.475A	to	10.50V)	4.75Ah
5 hour rate	(0.85A	to	10.20V)	4.25Ah
1 C	(5A	to	9.60V)	2.67Ah
3 C	(15A	to	9.60V)	1.75Ah

Weight Approx. 1.65kg(3.63Lbs.)

Internal Resistance (at 1KHz) Approx. 34 mΩ

Maximum Discharge Current for 5 seconds: 75A

Charging Methods at 25 (77 °C)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient -5.0mv/ °C/cell	
Maximum Charging Current :	1.5A
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 °C)
Discharge	-15 (5 °C)	to	50 (122 °C)
Storage	-15 (5 °C)	to	40 (104 °C)

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

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

Case Material ABS (UL94 HB)

Terminal F2 (Faston Tab 250)

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		14.9	17.0	18.3	18.8	19.0	19.2	19.4
10	min		10.0	11.3	11.6	11.8	11.9	12.0	12.1
15	min		7.21	7.83	8.31	8.53	8.58	8.65	8.74
30	min		4.36	4.82	4.97	5.11	5.15	5.21	5.26
60	min		2.53	2.78	2.89	2.97	2.99	3.02	3.05
120	min		1.42	1.54	1.62	1.65	1.66	1.67	1.69
180	min		1.14	1.21	1.23	1.25	1.26	1.27	1.28
240	min		0.889	0.948	0.973	0.996	1.00	1.01	1.02
300	min		0.812	0.843	0.856	0.867	0.871	0.876	0.882
600	min		0.474	0.496	0.511	0.519	0.523	0.527	0.531
1200	min		0.241	0.255	0.267	0.275	0.278	0.282	0.286

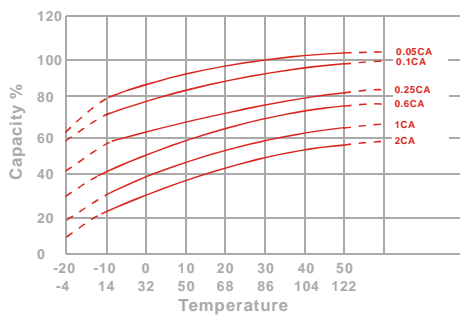
Discharge Rates in Watts to Various End Voltages at 25 (77)

Time		End Voltage	1.85V	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min		136	154	167	179	184	190	197
10	min		98.5	112	120	126	128	131	134
15	min		79.5	88.7	92.1	94.9	95.7	96.6	97.8
30	min		46.7	52.4	54.5	56.6	57.2	57.9	58.6
60	min		26.3	29.7	31.9	33.7	34.1	34.7	35.2
120	min		16.2	17.8	18.6	19.2	19.5	19.9	20.3
180	min		12.7	13.8	14.4	14.8	15.0	15.3	15.6
240	min		10.3	11.1	11.6	11.9	12.1	12.2	12.4
300	min		9.17	9.82	10.1	10.3	10.4	10.5	10.7
600	min		6.12	6.47	6.62	6.74	6.79	6.85	6.92
1200	min		2.98	3.21	3.33	3.41	3.43	3.47	3.51

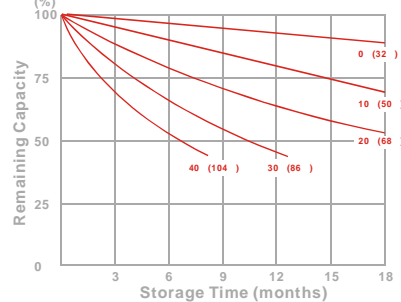
All data on the spec. sheet is an average value:

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

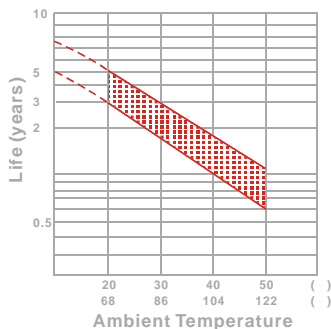
Effect of Temperature on Capacity 25 (77)



Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life

