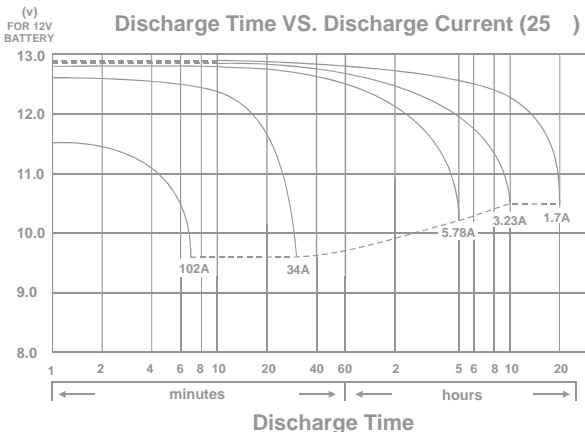
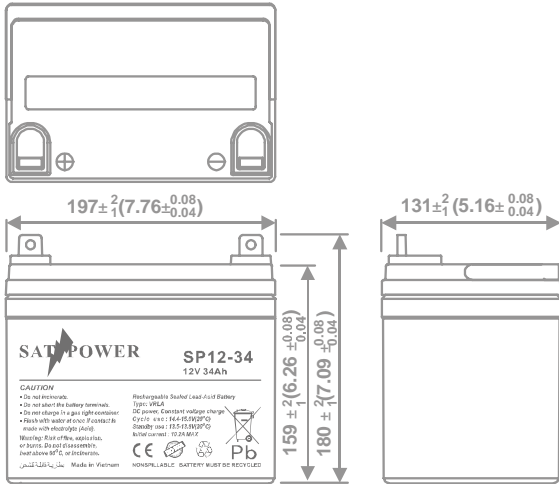
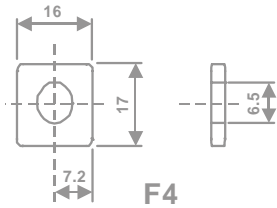




## Dimensions mm(inch)



# SP12-34

## Specifications

Nominal Voltage(V) 12V

### Nominal Capacity

20 hour rate	(1.7A)	to	10.50V	34Ah
10 hour rate	(3.23A)	to	10.50V	32.3Ah
5 hour rate	(5.78A)	to	10.20V	28.9Ah
1 C	(34A)	to	9.60V	18.13Ah
3 C	(102A)	to	9.60V	11.9Ah

Weight Approx. 10.5kg(23.1Lbs.)

Internal Resistance (at 1KHz) Approx. 10 mΩ

Maximum Discharge Current for 5 seconds: 510A

### Charging Methods at 25 (77 °C)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient -5.0mv/°C /cell	
Maximum Charging Current :	10.2A
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 F4

## 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	85.7	106	121	130	133	137	141
10	min	60.4	70.3	76.4	80.7	82.6	85.1	88.2
15	min	49.5	56.9	61.7	64.4	65.2	66.2	67.5
30	min	28.4	32.3	33.9	35.2	35.6	36.1	36.7
60	min	16.9	18.2	19.1	19.8	20.0	20.3	20.6
120	min	10.2	11.0	11.5	11.9	12.0	12.2	12.4
180	min	7.26	7.85	8.31	8.47	8.53	8.62	8.76
240	min	5.68	6.14	6.51	6.69	6.74	6.81	6.91
300	min	5.31	5.59	5.76	5.89	5.94	6.01	6.08
600	min	3.11	3.23	3.34	3.42	3.45	3.48	3.52
1200	min	1.62	1.70	1.75	1.79	1.80	1.82	1.84

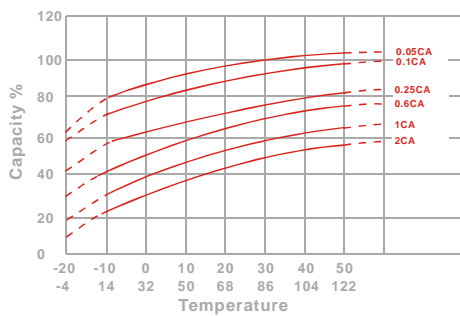
**Discharge Rates in Watts to Various End Voltages at 25 (77 )**

End Voltage		1.85V	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	712	965	1154	1275	1316	1358	1415
10	min	504	665	787	863	889	917	952
15	min	416	540	632	689	706	729	756
30	min	223	291	341	372	382	394	408
60	min	204	219	228	233	235	238	240
120	min	131	138	142	145	146	148	149
180	min	87.6	93.4	98	100	101	102	103
240	min	72.4	76.9	80.0	81.8	82.7	83.5	84.2
300	min	63.2	67.2	69.7	71.3	71.9	72.7	73.4
600	min	37.6	40.0	41.6	42.4	43.8	43.2	43.6
1200	min	19.9	21.0	21.9	22.3	22.5	22.7	22.9

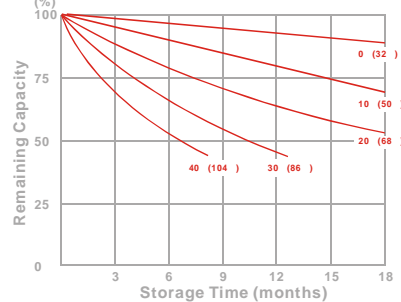
All data on the spec. sheet is an average value:

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

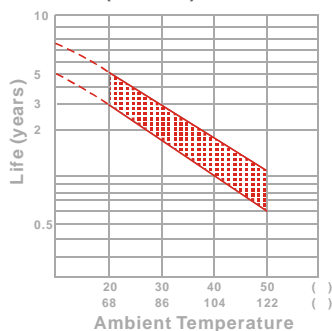
**Effect of Temperature on Capacity 25 (77 )**



**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**

