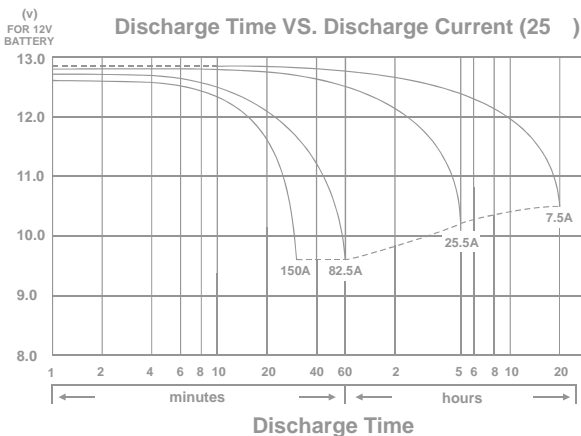
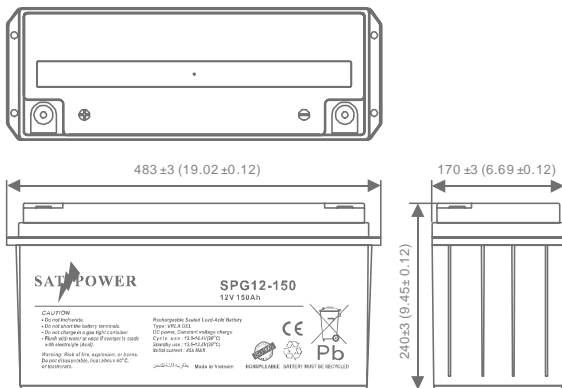
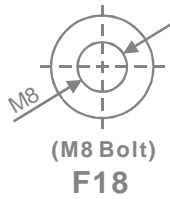




Dimensions

mm(inch)



SPG12-150

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(7.5A	to	10.50V)	150Ah
5 hour rate	(25.5A	to	10.20V)	127.5Ah
1 hour rate	(82.5A	to	9.60V)	82.5Ah
1 C	(150A	to	9.60V)	80Ah

Weight Approx. 46.2kg(102Lbs.)

Internal Resistance (at 1KHz) Approx. 4.7 mΩ

Maximum Discharge Current for

5 seconds: 1500A

Charging Methods at 25 °C (77 °F)

Cycle use:

Charging Voltage 13.8 to 14.4V

Coefficient -5.0mV/°C /cell

Maximum Charging Current : 45A

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/°C /cell

Operating Temperature Range

Charge -15 (5 °F) to 40 (104 °F)

Discharge -15 (5 °F) to 50 (122 °F)

Storage -15 (5 °F) 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

F18

Description of torque value of hard ware for the terminals:

Recommended torque value M8: 7.35 N-m (75kg-cm)

Maximum allowable torque value M8: 9.8 N-m (100kg-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	278	329	381	407	436	450	455
10	min	222	253	283	299	314	322	328
15	min	190	212	233	243	253	259	265
20	min	163	179	194	201	209	212	218
30	min	129	139	147	151	155	157	163
60	min	78.5	81.5	83.3	84.3	85.3	85.9	89.5
90	min	64.2	67.8	68.8	69.5	69.7	69.9	70.9
120	min	51.7	54.4	55.2	55.8	56.0	56.2	56.8
180	min	36.4	38.1	38.7	39.1	39.2	39.4	39.8
240	min	28.3	29.6	30.1	30.4	30.5	30.6	30.8
300	min	22.9	23.8	24.2	24.4	24.6	24.6	24.8
480	min	15.5	16.2	16.3	16.5	16.6	16.6	16.7
600	min	14.4	14.9	15.0	15.2	15.2	15.3	15.4
1200	min	7.19	7.38	7.50	7.58	7.63	7.64	7.66

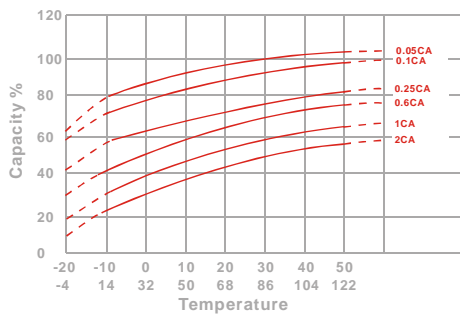
Discharge Rates in Watts to Various End Voltages at 25 (77)

Time	End Voltage	1.85V	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	2981	3520	4083	4363	4664	4818	4863
10	min	2444	2784	3119	3282	3454	3543	3608
15	min	2091	2332	2560	2669	2785	2845	2913
20	min	1876	2061	2229	2311	2395	2440	2506
30	min	1496	1608	1705	1751	1798	1825	1885
60	min	934	969	992	1004	1015	1022	1066
90	min	766	809	821	828	832	834	845
120	min	618	650	660	666	669	671	679
180	min	437	457	464	469	470	472	477
240	min	341	357	362	366	368	369	372
300	min	276	287	292	295	295	296	299
480	min	187	195	198	200	200	201	202
600	min	174	180	182	184	185	185	187
1200	min	87.0	89.4	90.6	91.6	92.2	92.4	92.6

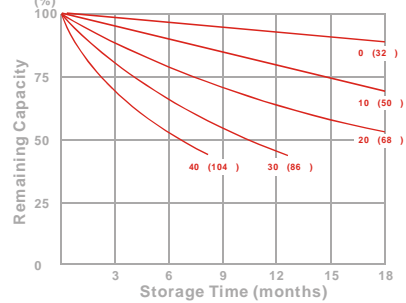
All data on the spec. sheet is an average value:

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

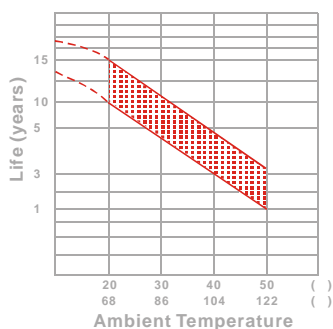
Effect of Temperature on Capacity 25 (77)



Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life

