

# PT7.5-12

12Volt 7.5Ah

## Specifications

**Nominal Voltage(V)** 12V

### Nominal Capacity

20 hour rate	(0.36A to 10.50V)	7.5Ah
10 hour rate	(0.684A to 10.50V)	6.881Ah
5 hour rate	(1.224A to 10.20V)	6.356Ah
1 C	(7.2A to 9.60V)	4.43Ah
3 C	(21.6A to 9.60V)	2.8Ah

**Weight** Approx. 2.20kg(4.85Lbs.)

**Internal Resistance (at 1KHz)** Approx. 22 mΩ

### Maximum Discharge Current for

**5 seconds:** 108A

### Charging Methods at 25°C (77°F)

<b>Cycle use:</b>	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	2.25A
<b>Standby use:</b>	
Float Charging Voltage	13.5 to 13.8V
Coefficient	-3.0mV/°C/cell

### Operating Temperature Range

Charge	-15°C (5°F) to 40°C (104°F)
Discharge	-15°C (5°F) to 50°C (122°F)
Storage	-15°C (5°F) to 40°C (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

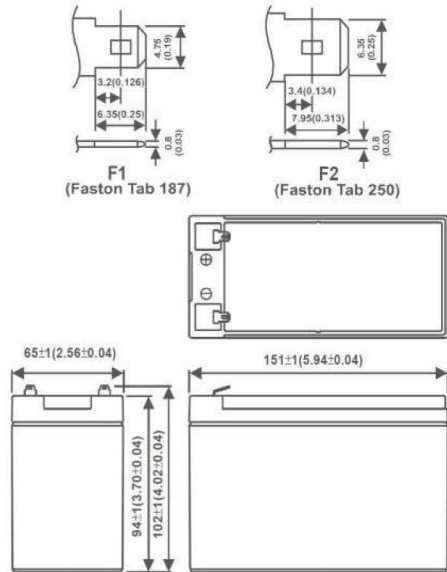
Option: Flammability resistance of (UL94 V-0)

**Terminal** F1 or F2 (Faston Tab 187 or 250)

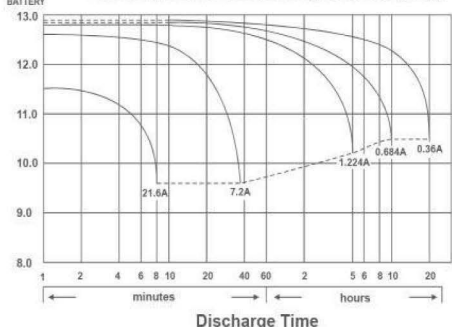


## Dimensions

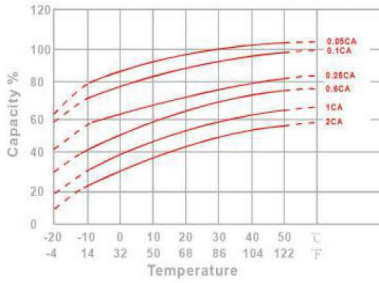
mm(inch)



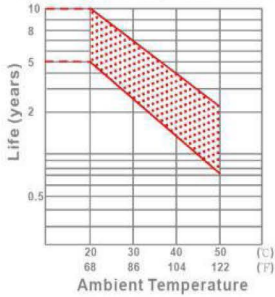
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



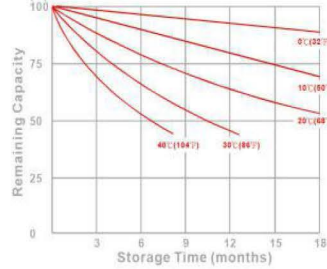
Effect of Temperature on Capacity 25°C(77°F)



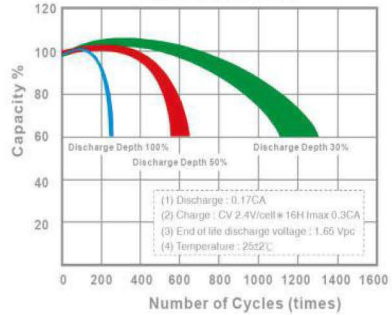
Trickle (or float) Service Life



Capacity Retention Characteristic



Cycle Service Life



**- PERFORMANCE DATA**

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	42.8	48.0	50.3	52.5	53.5	54.3	52.8
10	min	29.8	31.3	32.7	34.0	34.8	35.3	36.3
15	min	24.5	25.5	26.2	26.8	27.0	27.5	28.2
30	min	13.0	13.7	14.1	14.5	14.6	14.7	14.9
60	min	8.43	8.73	8.97	9.15	9.22	9.30	9.45
120	min	4.21	4.39	4.63	5.22	5.27	5.32	5.40
180	min	3.27	3.45	3.60	3.73	3.77	3.82	3.87
240	min	2.87	3.01	3.10	3.15	3.17	3.20	3.23
300	min	2.47	2.54	2.63	2.68	2.70	2.72	2.73
600	min	1.36	1.39	1.42	1.44	1.44	1.45	1.46
1200	min	0.694	0.718	0.737	0.750	0.755	0.760	0.770

**- Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)**

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	23.5	26.4	28.1	29.7	30.5	31.3	32.6
10	min	16.2	17.0	18.2	18.6	18.8	19.1	19.8
15	min	12.5	13.1	13.6	13.9	14.0	14.2	14.5
30	min	6.61	6.92	7.14	7.30	7.38	7.45	7.61
60	min	3.98	4.13	4.25	4.36	4.39	4.42	4.48
120	min	2.05	2.14	2.21	2.27	2.29	2.32	2.35
180	min	1.63	1.69	1.75	1.80	1.82	1.84	1.87
240	min	1.30	1.37	1.42	1.45	1.46	1.47	1.49
300	min	1.11	1.16	1.23	1.25	1.26	1.27	1.28
600	min	0.650	0.680	0.721	0.728	0.732	0.737	0.747
1200	min	0.341	0.357	0.377	0.382	0.384	0.387	0.392

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

The tolerance range :  $X < 6\text{min}$ (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$ (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$ (+8%~-8%),  $X \geq 60\text{min}$ (+5%~-5%)