

# PT12-12

12Volt 12Ah

## Specifications

**Nominal Voltage(V)** 12V

### Nominal Capacity

20 hour rate	(0.36A to 10.50V)	12Ah
10 hour rate	(0.684A to 10.50V)	11Ah
5 hour rate	(1.224A to 10.20V)	10Ah
1 C	(7.2A to 9.60V)	4.43Ah
3 C	(21.6A to 9.60V)	2.8Ah

**Weight** Approx. 3.45kg(7.60Lbs.)

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

### Maximum Discharge Current for

**5 seconds:** 108A

### Charging Methods at 25°C (77°F)

#### Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 3.6A

#### Standby use:

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

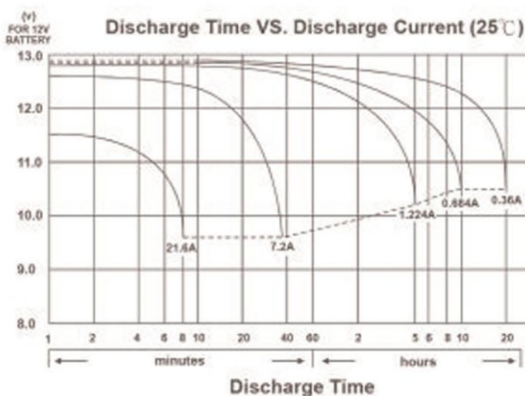
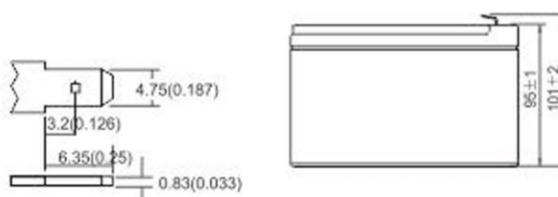
Option: Flammability resistance of (UL94 V-0)

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

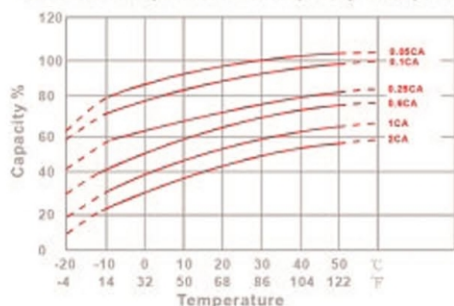


## Dimensions

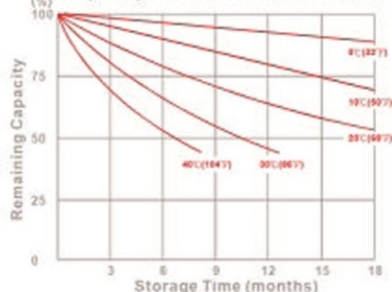
mm(inch)



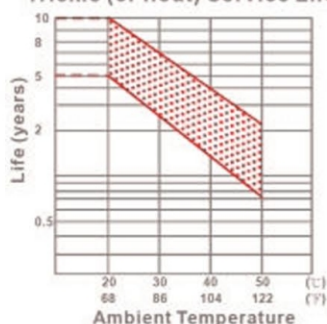
Effect of Temperature on Capacity 25°C (77°F)



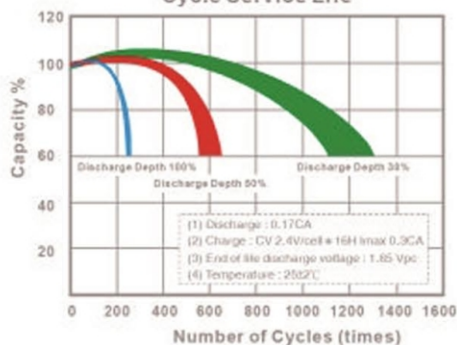
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



Constant Current Discharge (Amperes) at 25°C (77°F) <sup>0</sup>

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	26.0	24.2	20.6	17.1	12.5	8.95	7.11	4.00	2.87	2.29	1.97	1.68	1.41	1.19	0.678
1.80V/cell	30.4	27.4	22.5	18.3	13.5	9.70	7.59	4.26	3.03	2.40	2.02	1.77	1.50	1.26	0.684
1.75V/cell	34.2	30.1	24.6	19.8	14.0	10.1	7.94	4.43	3.15	2.50	2.10	1.81	1.52	1.28	0.690
1.70V/cell	37.7	32.7	26.3	20.8	14.6	10.5	8.19	4.61	3.27	2.58	2.14	1.85	1.54	1.29	0.703
1.67V/cell	41.6	35.3	27.9	22.0	15.3	10.8	8.47	4.73	3.38	2.66	2.19	1.89	1.57	1.32	0.713
1.60V/cell	46.0	37.6	29.4	23.5	16.2	11.3	8.77	4.90	3.48	2.74	2.25	1.94	1.58	1.33	0.716

Constant Power Discharge (Watts) at 25°C (77°F) <sup>0</sup>

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	47.6	44.6	38.3	32.2	23.9	17.2	13.7	7.75	5.63	4.52	3.92	3.37	2.76	2.36	1.35
1.80V/cell	55.0	49.9	41.5	34.0	25.2	18.5	14.6	8.21	5.90	4.70	4.00	3.52	2.92	2.49	1.36
1.75V/cell	60.7	53.9	44.8	36.4	26.0	19.1	15.1	8.52	6.11	4.89	4.14	3.61	2.97	2.51	1.37
1.70V/cell	65.0	57.4	47.1	37.9	26.9	19.8	15.6	8.84	6.33	5.03	4.23	3.68	3.01	2.54	1.40
1.67V/cell	70.7	61.5	49.8	40.0	28.1	20.1	16.0	9.03	6.51	5.17	4.31	3.74	3.05	2.59	1.41
1.60V/cell	76.1	63.9	51.3	42.1	29.5	20.9	16.5	9.29	6.67	5.32	4.41	3.82	3.07	2.61	1.42

Specifications subject to change without notice.