

# PT22-12

12Volt 22Ah

## Specifications

**Nominal Voltage(V)** 12V

### Nominal Capacity

20 hour rate	(0.36A to 10.50V)	22Ah
10 hour rate	(0.684A to 10.50V)	20.24Ah
5 hour rate	(1.224A to 10.20V)	18.63Ah
1 C	(7.2A to 9.60V)	14.17Ah
3 C	(21.6A to 9.60V)	15.74Ah

**Weight** Approx. 6.9kg(16.53Lbs.)

**Internal Resistance (at 1KHz)** Approx. 18 mΩ

### Maximum Discharge Current for

**5 seconds:** 220A

### Charging Methods at 25°C (77°F)

#### Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 7.8A

#### 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)

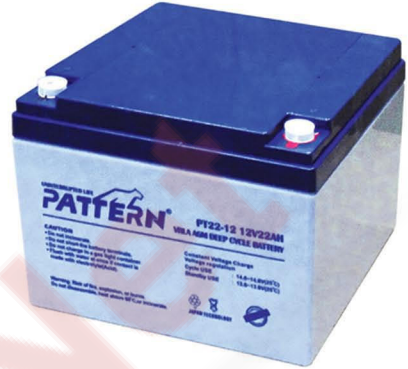
### Charge Retention (shelf life) at 20°C (68°F)

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

**Case Material** ABS UL94 HB

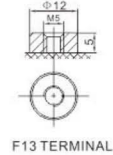
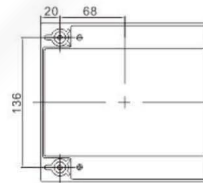
Option: Flammability resistance of (UL94 V-0)

**Terminal** M5

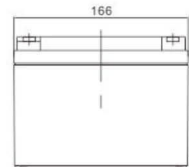
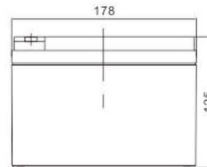


## Dimensions

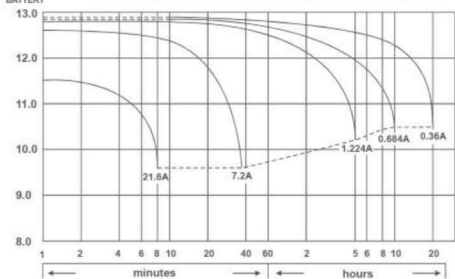
mm(inch)



F13 TERMINAL

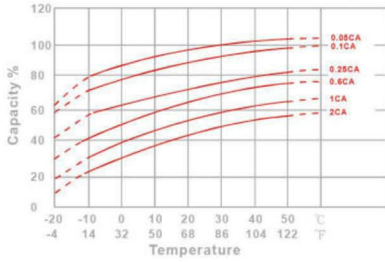


(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)

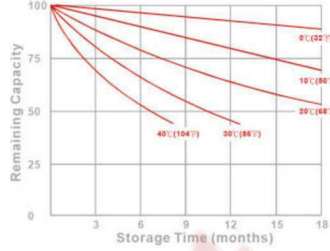


Discharge Time

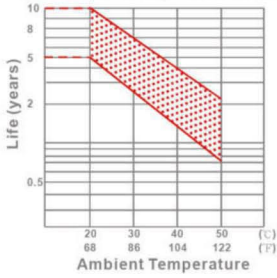
**Effect of Temperature on Capacity 25°C(77°F)**



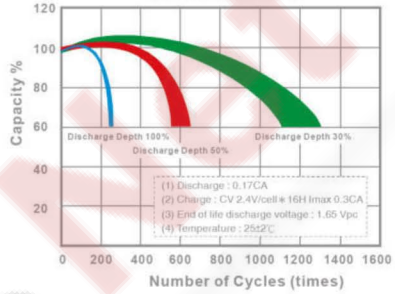
**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**



**Constant Current Discharge Characteristics : A (25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	93.03	61.95	46.17	26.99	15.60	9.687	7.042	5.608	4.734	3.163	2.576	1.344
1.65V	89.67	60.10	44.96	26.40	15.31	9.545	6.948	5.538	4.679	3.131	2.552	1.334
1.70V	85.30	57.68	43.37	25.62	14.93	9.357	6.824	5.445	4.606	3.089	2.519	1.319
1.75V	79.68	54.55	41.30	24.59	14.42	9.107	6.658	5.322	4.510	3.032	2.476	1.300
1.80V	72.60	50.55	38.64	23.26	13.77	8.779	6.441	5.160	4.382	2.957	2.418	1.275
1.85V	63.89	45.54	35.28	21.56	12.92	8.353	6.156	4.947	4.214	2.858	2.342	1.241

**Constant Power Discharge Characteristics : WPC (25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	160.1	106.9	81.93	49.77	29.60	18.64	13.79	11.04	9.36	6.33	5.19	2.69
1.65V	158.4	106.4	81.47	49.40	29.36	18.50	13.69	10.96	9.29	6.29	5.15	2.67
1.70V	152.4	103.3	79.27	48.20	28.73	18.19	13.48	10.80	9.17	6.21	5.09	2.64
1.75V	144.9	99.45	76.58	46.75	27.90	17.78	13.21	10.60	9.01	6.11	5.01	2.61
1.80V	134.3	93.76	72.66	44.67	26.75	17.23	12.83	10.31	8.78	5.97	4.90	2.56
1.85V	120.3	85.97	67.28	41.82	25.29	16.48	12.31	9.92	8.47	5.79	4.75	2.50

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.