

PT110-12

12Volt 110Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

10 hour rate	(12A to 10.80V)	110Ah
5 hour rate	(20.4A to 10.20V)	93Ah
1 hour rate	(72A to 9.60V)	66Ah

Weight Approx. 32kg(70.4Lbs.)

Internal Resistance (at 1KHZ) Approx. 4mΩ

Maximum Discharge Current for

5 seconds: 1200A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C/cell

Maximum Charging Current : 33A

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)

Design Life 12 years

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

1 month 98%

3 month 94%

6 month 85%

Case Material ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Terminal F18

Description of torque value of hard ware for the terminals:

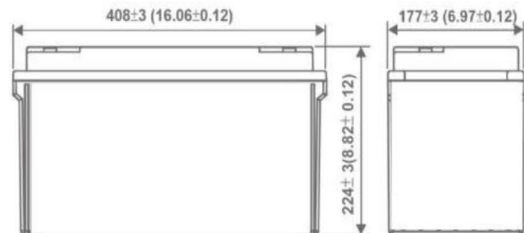
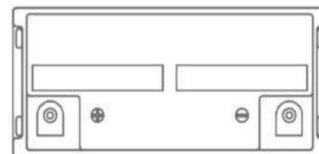
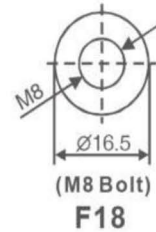
Recommended torque value M8: 7 N-m (71kgf-cm)

Maximum allowable torque value M8: 9 N-m (92kgf-cm)

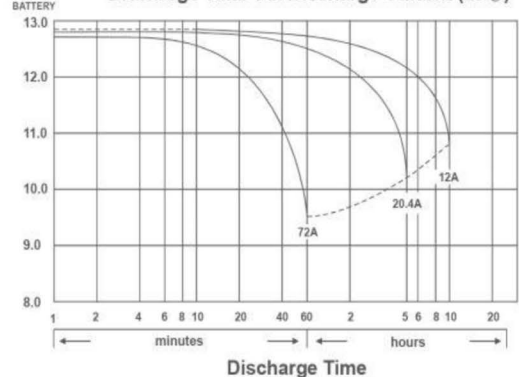


Dimensions

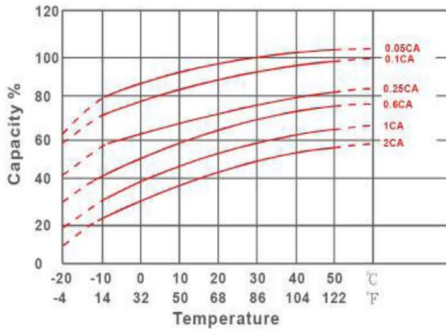
mm(inch)



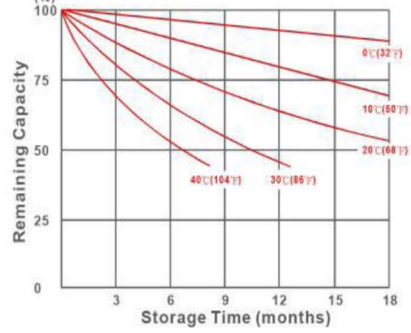
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



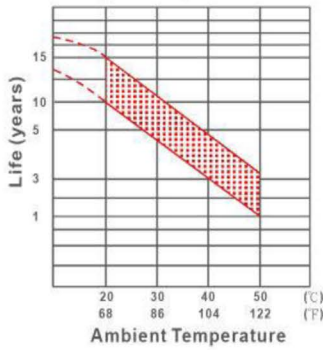
Effect of Temperature on Capacity 25°C(77°F)



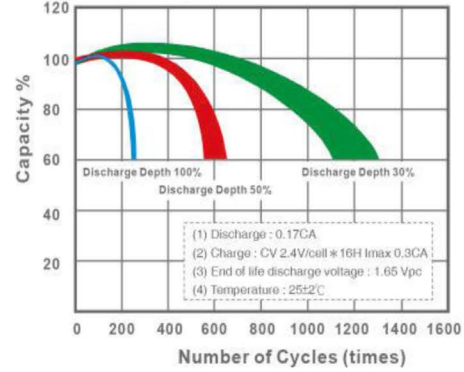
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		1.80V	1.75V	1.70V	1.65V	1.60V
Time	min					
10	min	358	383	404	426	449
15	min	310	334	346	358	370
30	min	199	206	213	220	227
45	min	150	154	157	171	172
60	min	124	128	131	137	141
90	min	88.6	91.0	93.0	97.0	100
180	min	53.0	54.1	55.0	56.6	59.2
300	min	37.0	37.4	38.3	38.9	39.5
480	min	26.0	26.5	26.8	27.1	27.4
600	min	22.3	22.8	23.0	23.2	23.3

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

End Voltage		1.80V	1.75V	1.70V	1.65V	1.60V
Time	min					
10	min	197	210	223	245	250
15	min	167	179	187	195	196
30	min	106	108	112	116	120
45	min	78.9	81.0	83.8	86.1	87.7
60	min	65.4	67.5	69.7	71.1	71.6
90	min	46.8	49.0	50.4	51.3	51.8
180	min	28.1	30.5	31.0	31.5	32.0
300	min	19.3	20.0	20.7	21.0	21.0
480	min	13.6	14.0	14.2	14.5	14.6
600	min	12.0	12.1	12.2	12.3	12.5

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%)