

TPK12100 12Volt 100Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

10 hour rate	(10A	to	10.80V)	100Ah
5 hour rate	(17A	to	10.20V)	85Ah
1 hour rate	(60A	to	9.60V)	60Ah
1 C	(100A	to	9.60V)	50Ah

Weight Approx. 32.2kg(70.93Lbs.)

Internal Resistance (at 1KHz) Approx. 4.0 mΩ

Maximum Discharge Current for

5 seconds: 600A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 30A

Standby use:

Float Charging Voltage 13.50 to 13.80V

Coefficient -3.0mv/ /cell

Design Life 12 years

Operating Temperature Range

Charge -15 (5) to 40 (104)

Discharge -15 (5) to 50 (122)

Storage -15 (5) to 40 (104)

Charge Retention (shelf life) at 20 (68)

1 month 98%

3 month 94%

6 month 85%

Case Material ABS

(UL94-V0 flame retardant case / cover)

Description of torque value of hard ware for the terminals:

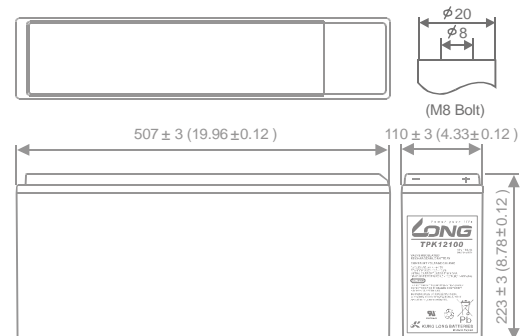
Recommended torque value M8: 7.35 N-m (75kg-cm)

Maximum allowable torque value M8: 9.8 N-m (100kg-cm)

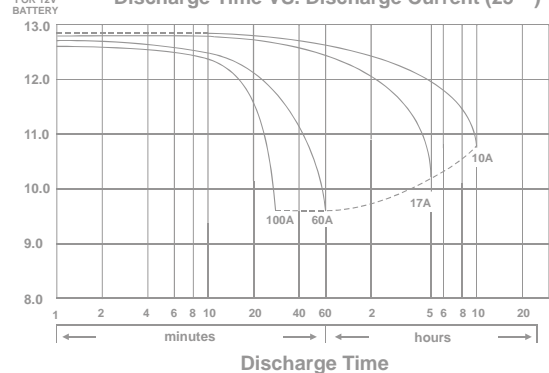


Dimensions

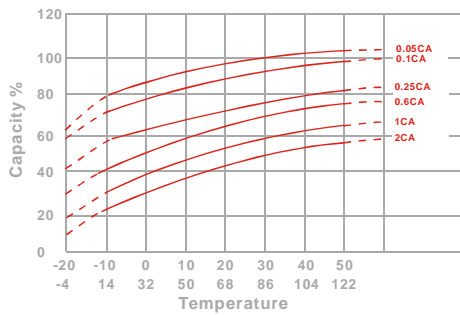
mm(inch)



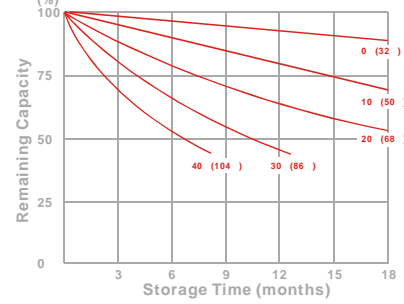
Discharge Time VS. Discharge Current (25)



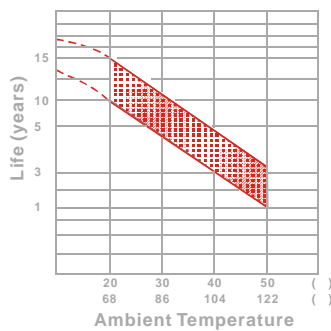
Effect of Temperature on Capacity 25 (77)



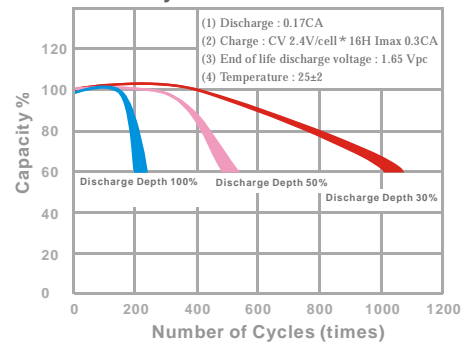
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		11.1V	10.8V	10.5V	10.2V	9.90V	9.60V
Time	min	1301	1596	1798	1927	2007	2050
15	min	775	950	1071	1148	1195	1221
30	min	671	699	712	722	727	731
60	min	357	372	379	384	386	388
120	min	287	299	304	309	311	312
180	min	232	242	247	250	252	253
240	min	197	206	210	212	214	215
300	min	117	122	124	125	126	127
600	min	61.2	63.8	65.0	65.9	66.3	66.7
1200	min						

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

End Voltage		11.1V	10.8V	10.5V	10.2V	9.90V	9.60V
Time	min	124	152	171	184	191	195
15	min	70.5	86.4	97.3	104	109	111
30	min	57.6	60.0	61.2	62.0	62.4	62.7
60	min	30.2	31.5	32.1	32.5	32.7	32.9
120	min	24.0	25.0	25.5	25.8	26.0	26.1
180	min	19.2	20.0	20.4	20.7	20.8	20.9
240	min	16.3	17.0	17.3	17.6	17.7	17.8
300	min	9.60	10.0	10.2	10.3	10.4	10.5
600	min	5.04	5.25	5.35	5.42	5.46	5.49
1200	min						

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%)

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