

TPK12150 12Volt 150Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

10 hour rate	(15A	to	10.80V)	150Ah
5 hour rate	(25.5A	to	10.20V)	127.5Ah
1 hour rate	(90A	to	9.60V)	90Ah
1 C	(150A	to	9.60V)	75Ah

Weight **Approx. 47.5kg(105Lbs.)**

Internal Resistance (at 1KHz) **Approx. 4.0 mΩ**

Maximum Discharge Current for

5 seconds: **1500A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 14.7V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **45A**

Standby use:

Float Charging Voltage **13.5 to 13.8V**

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 HB**

Option: Flammability resistance of (UL94 V-0)

Terminal **F18**

Description of torque value of hard ware for the terminals:

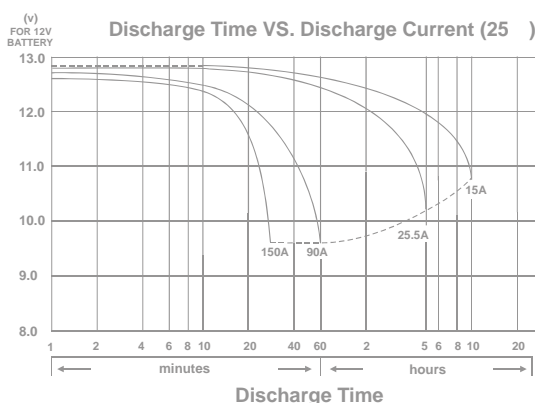
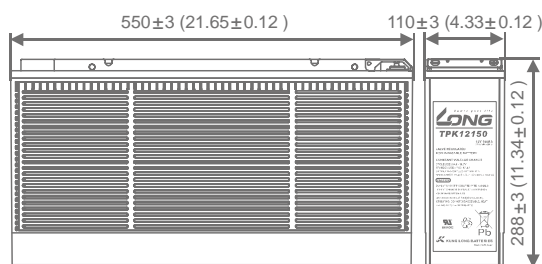
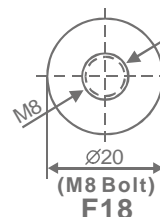
Recommended torque value **M8: 7 N-m (71kgf-cm)**

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

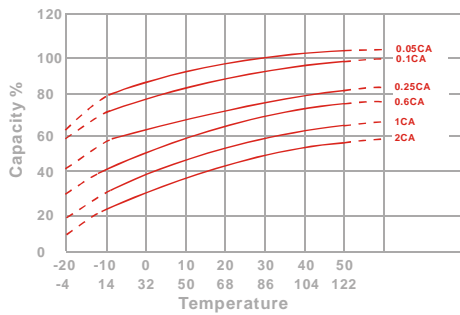


Dimensions

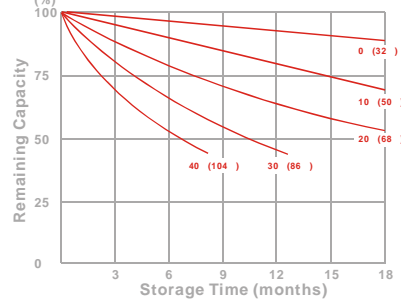
mm(inch)



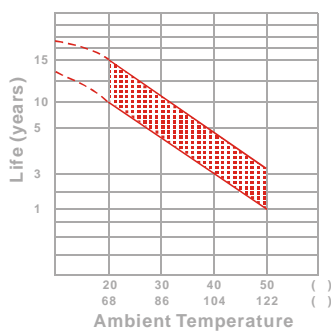
Effect of Temperature on Capacity 25 (77)



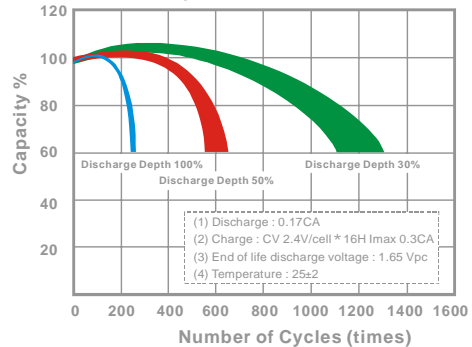
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
15	min	330	405	456	489	499	509	520
30	min	197	241	272	291	297	303	310
60	min	164	175	182	186	187	188	189
120	min	88.3	93.2	95.8	98.0	98.8	99.7	101
180	min	70.2	73.8	76.5	78.5	79.2	80.0	80.8
240	min	57.5	60.3	62.2	63.7	64.2	64.8	65.5
300	min	48.8	51.3	53.2	54.3	54.7	55.2	55.7
480	min	35.7	36.7	38.2	39.2	39.5	39.8	40.2
600	min	29.3	31.2	31.8	32.3	32.5	32.7	32.8
1200	min	15.0	15.8	16.4	16.8	17.0	17.2	17.3

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
15	min	193	234	261	280	285	291	298
30	min	107	132	148	159	162	165	169
60	min	82.7	89.9	92.7	94.8	95.6	96.4	97.5
120	min	43.7	49.6	52.1	53.9	54.6	55.4	56.4
180	min	32.4	37.2	39.1	40.5	41.0	41.6	42.3
240	min	27.4	30.1	31.4	32.4	32.7	33.1	33.5
300	min	23.7	25.6	26.6	27.4	27.6	27.9	28.1
480	min	17.5	18.4	18.9	19.3	19.4	19.6	19.7
600	min	14.6	15.3	15.7	16.0	16.1	16.2	16.3
1200	min	7.86	8.18	8.32	8.41	8.44	8.48	8.53

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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