

## 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 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 45A

##### 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:

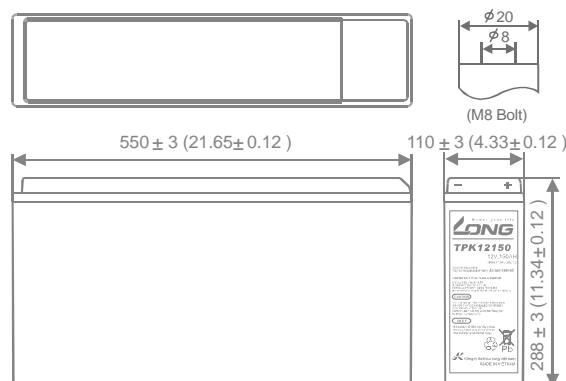
Recommended torque value M8: 7.35 N-m (75kg-cm)

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

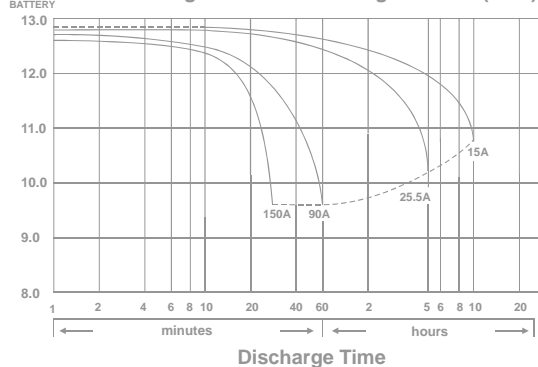


### Dimensions

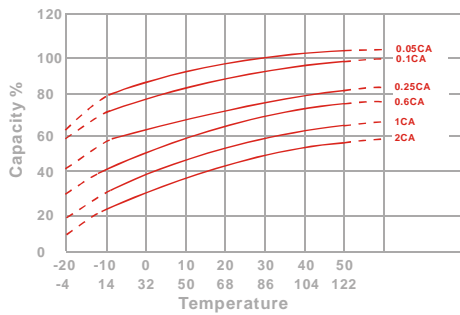
mm(inch)



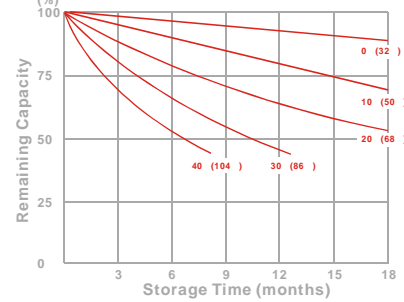
#### Discharge Time VS. Discharge Current (25 )



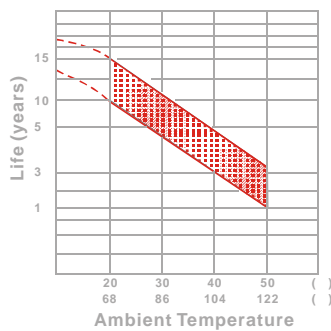
Effect of Temperature on Capacity 25 (77 )



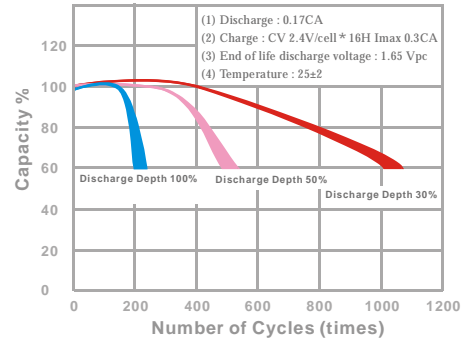
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



## - PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
15	min	1981	2430	2737	2934	2992	3055	3122
30	min	1180	1447	1630	1748	1783	1820	1859
60	min	986	1048	1089	1118	1123	1129	1136
120	min	530	559	575	588	593	598	604
180	min	421	443	459	471	475	480	485
240	min	345	362	373	382	385	389	393
300	min	293	308	319	326	328	331	334
480	min	214	220	229	235	237	239	241
600	min	176	187	191	194	195	196	197
1200	min	89.8	94.7	98.1	101	102	103	104

- 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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