

TPK12155 12Volt 155Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

10 hour rate	(15.5A to 10.80V)	155Ah
5 hour rate	(26.35A to 10.20V)	131.8Ah
1 hour rate	(93A to 9.60V)	93Ah
1 C	(155A to 9.60V)	77.5Ah

Weight Approx. 49.0kg(108Lbs.)

Internal Resistance (at 1KHz) Approx. 4.5 mΩ

Maximum Discharge Current for

5 seconds: 1550A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 46.5A

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)

Design Life 12 years

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:

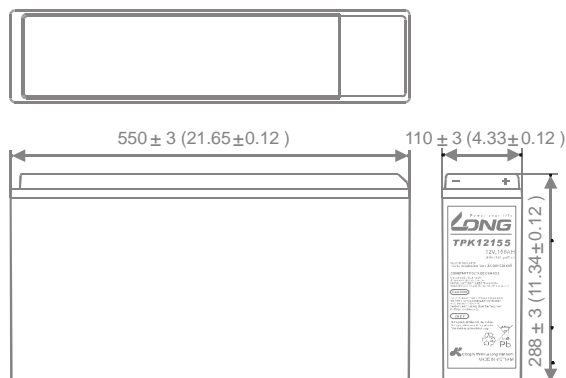
Recommended torque value M8: 7.35 N-m (75kg-cm)

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

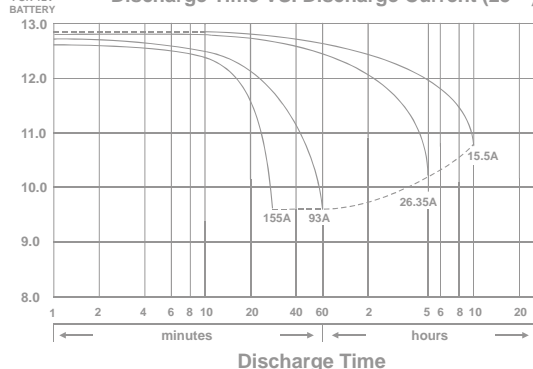


Dimensions

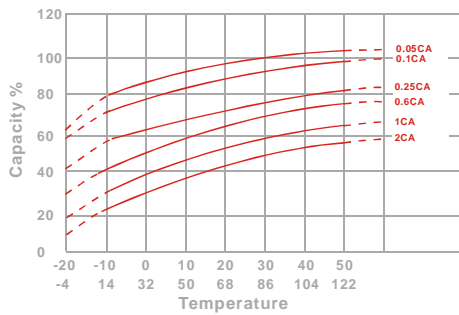
mm(inch)



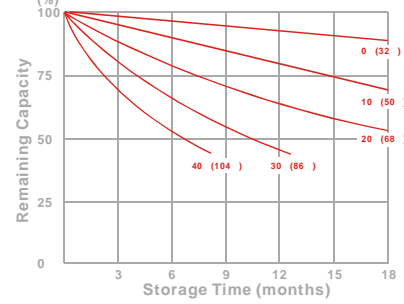
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)



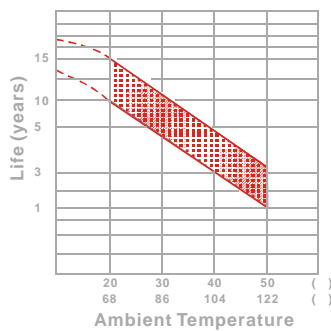
Effect of Temperature on Capacity 25 (77)



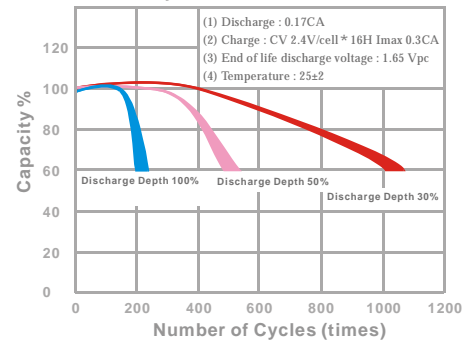
Capacity Retention Characteristic



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	2450	3005	3385	3629	3702	3778	3860
30	min	1459	1790	2016	2161	2204	2250	2299
60	min	1212	1274	1328	1360	1372	1384	1398
120	min	688	729	751	767	773	780	787
180	min	528	566	581	594	599	605	611
240	min	433	455	469	480	484	489	494
300	min	364	390	401	410	413	417	421
480	min	259	272	281	287	289	292	295
600	min	216	225	232	237	239	241	243
1200	min	112.0	119	123	126	127	128	129

- 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	234	286	323	344	351	360	368
30	min	146	167	187	201	203	206	209
60	min	104	112	115	117	118	119	120
120	min	56.2	61.9	63.8	65.4	66.0	66.7	67.4
180	min	41.4	46.1	47.7	49.1	49.6	50.2	50.8
240	min	34.4	37.3	38.6	39.7	40.1	40.6	41.1
300	min	29.4	31.5	32.6	33.5	33.8	34.2	34.6
480	min	20.3	21.8	22.7	23.4	23.6	23.9	24.2
600	min	18.3	19.0	19.4	19.7	19.8	20.0	20.2
1200	min	9.38	9.72	10.1	10.3	10.4	10.5	10.6

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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