

## KPH150-12N 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)	95Ah

Weight **Approx. 46.0kg(101.2Lbs.)**

Internal Resistance (at 1KHz) **Approx. 4 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 **13.5 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 **F8**

#### Description of torque value of hard ware for the terminals:

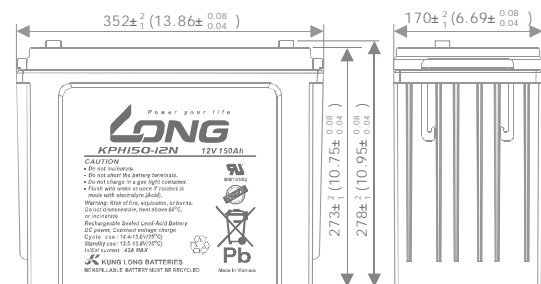
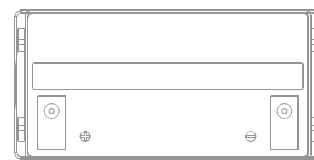
Recommended torque value **M6: 7 N-m (71kgf-cm)**

Maximum allowable torque value **M6: 9 N-m (92kgf-cm)**

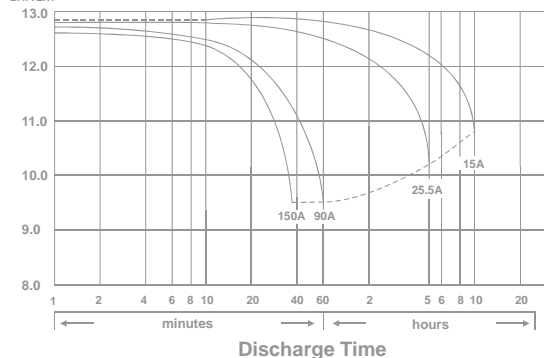


### Dimensions

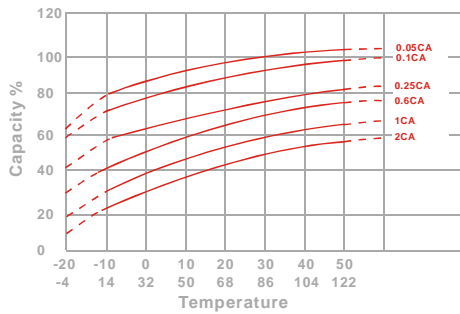
mm(inch)



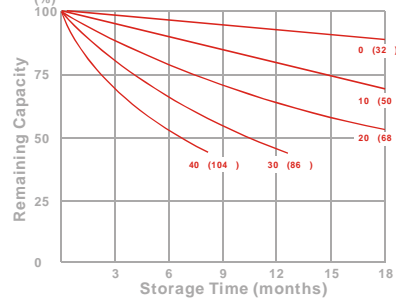
#### (V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25 )



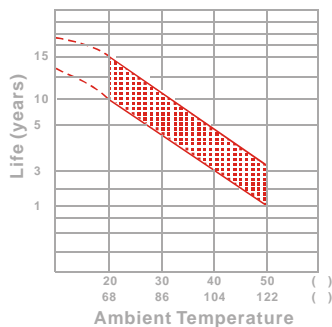
Effect of Temperature on Capacity 25 (77 )



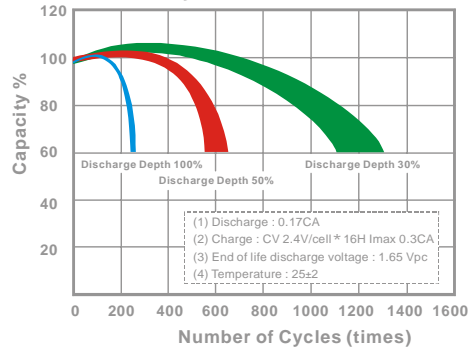
Capacity Retention Characteristic



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								
5	min	561	626	682	731	755	779	826
10	min	501	546	572	597	609	622	645
15	min	443	468	487	505	513	522	537
30	min	259	272	282	292	296	300	308
60	min	155	164	170	174	176	177	179
120	min	83.8	89.0	91.8	94.2	95.2	96.5	98.5
180	min	68.7	73.2	75.5	77.7	78.7	79.8	81.3
240	min	56.0	59.0	60.8	62.2	62.7	63.3	64.3
300	min	48.2	50.2	51.5	52.7	53.0	53.5	54.2
600	min	28.5	29.7	30.7	31.5	31.7	32.2	32.7
1200	min	15.1	15.6	16.0	16.4	16.5	16.7	16.8

### - 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								
5	min	296	373	417	446	459	472	490
10	min	245	276	303	325	335	346	363
15	min	218	246	265	278	283	289	306
30	min	119	131	141	149	152	155	160
60	min	70.7	79.6	82.8	85.2	86.5	87.9	90.0
120	min	37.5	44.2	45.9	47.1	47.6	48.2	49.1
180	min	32.6	36.2	37.5	38.6	39.1	39.6	40.2
240	min	25.8	28.7	29.8	30.7	31.0	31.3	31.7
300	min	23.9	24.8	25.5	26.1	26.2	26.6	26.9
600	min	14.4	15.0	15.3	15.5	15.6	15.8	15.9
1200	min	7.43	7.62	7.76	7.90	7.95	8.01	8.06

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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