

KPH80-12N 12Volt 80Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

10 hour rate	(8.0A	to	10.80V)	80Ah
5 hour rate	(13.6A	to	10.20V)	68Ah
1 hour rate	(48A	to	9.60V)	48Ah
1 C	(80A	to	9.60V)	50.67Ah

Weight Approx. 24kg(52.8Lbs.)

Internal Resistance (at 1KHz) Approx. 5 mΩ

Maximum Discharge Current for

5 seconds: 960A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/ /cell

Maximum Charging Current : 24A

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)

Terminal

F16

Description of torque value of hard ware for the terminals:

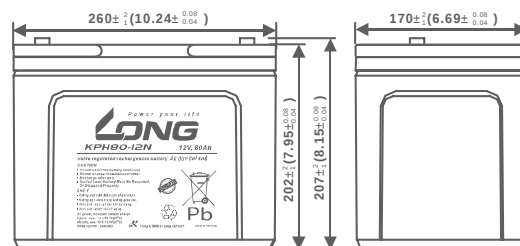
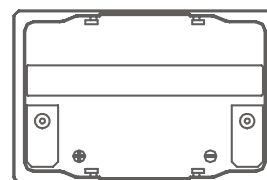
Recommended torque value M6: 5.39 N-m (55kg-cm)

Maximum allowable torque value M6: 8.82 N-m (90kg-cm)



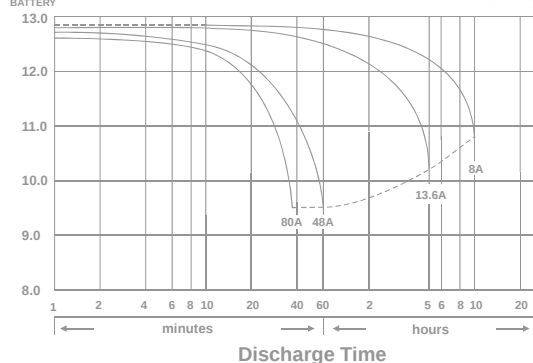
Dimensions

mm(inch)

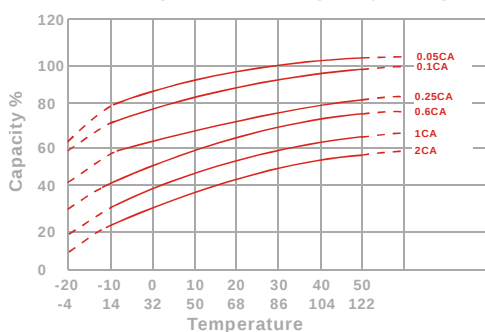


(V)
FOR 12V
BATTERY

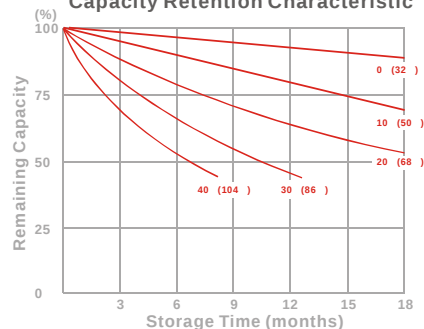
Discharge Time VS. Discharge Current (25)



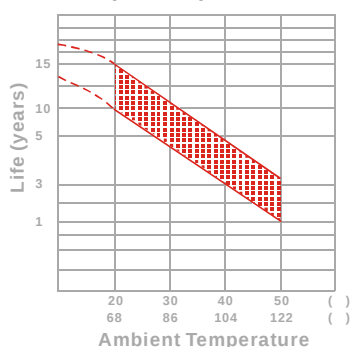
Effect of Temperature on Capacity 25 (77)



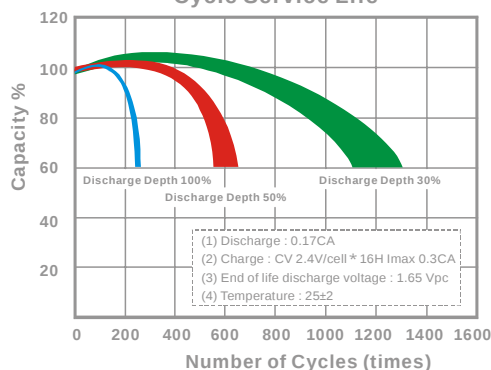
Capacity Retention Characteristic



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	2452	2586	2963	3144	3237	3328	3419
10	min	1678	1770	2028	2152	2216	2278	2341
15	min	1073	1358	1445	1653	1686	1732	1772
30	min	837	896	933	958	966	978	996
60	min	487	515	530	542	546	551	557
120	min	284	300	310	318	321	324	328
180	min	205	216	222	227	229	231	234
240	min	168	174	179	183	184	186	188
300	min	150	153	155	157	158	159	160
600	min	90.6	91.6	92.4	93.2	93.5	93.8	94.3
1200	min	47.3	48.0	48.6	49.1	49.4	49.6	49.9

- 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	179	215	246	273	282	293	306
10	min	113	144	168	187	193	200	208
15	min	91.0	110	125	139	142	146	151
30	min	63.5	73.0	79.8	84.9	86.0	87.6	89.4
60	min	38.8	41.7	43.5	45.0	45.5	46.1	46.9
120	min	20.3	22.5	24.0	25.1	25.5	25.9	26.4
180	min	15.9	17.5	18.5	19.4	19.7	20.1	20.5
240	min	13.0	14.0	14.8	15.4	15.7	16.0	16.3
300	min	11.9	12.7	13.2	13.5	13.7	13.9	14.2
600	min	7.57	7.66	7.73	7.78	7.80	7.85	7.89
1200	min	3.89	3.95	4.00	4.04	4.05	4.07	4.10

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%)

130415-1A-VNM0280



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