



RECHARGEABLE SEALED LEAD ACID BATTERY

Revision 1.2



KPH100-12N

Specifications

Nominal Voltage (V)	12V
Nominal Capacity	
20 hour rate (5A)	to 10.50V) 100Ah
10 hour rate (10A)	to 10.50V) 95Ah
5 hour rate (17A)	to 10.20V) 85Ah
1C (100A)	to 9.60V) 63.33Ah

Weight Approx.32.66kg(71.85Lbs)

Internal Resistance (at 1KHz) 5 mΩ

Maximum Discharge Current for 5 seconds : 1127A

Operating Temperature Range

Charge	-15°C (5°F) to	40°C (104°F)
Discharge	-15°C (5°F) to	50°C (122°F)
Storage	-15°C (5°F) to	40°C (104°F)

Charge Retention (shelf life) at 20°C (68°F)

1 month	92%
3 months	90%
6 months	80%

Charging Methods at 20°C (68°F)

Cycle use:
Charging Voltage 14.4 to 15.0V
Maximum Charging Current : 30A

Standby use :
Float Charging Voltage 13.50 to 13.80V

Life expectancy :

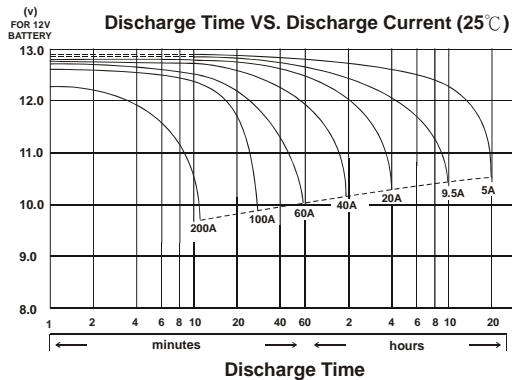
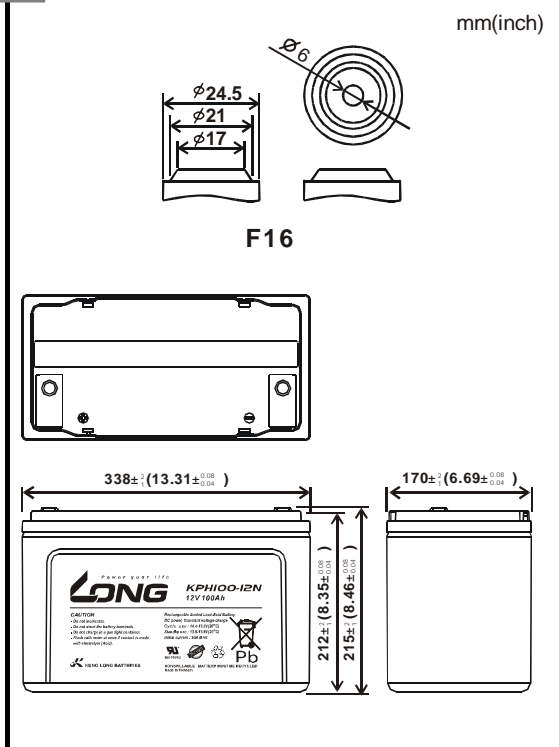
Cycle Use :
100% depth of discharge 200 cycles
80% depth of discharge 225 cycles
50% depth of discharge 500 cycles

Standby Use : 12 years

Case Material ABS
(Option : 94-HB & 94V-0 flame retardant case)

Terminal F16

Dimensions





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All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}(+15\% \sim -15\%)$, $6\text{min} \leq X < 10\text{min}(+12\% \sim -12\%)$, $10\text{min} \leq X < 60\text{min}(+8\% \sim -8\%)$, $X \geq 60\text{min}(+5\% \sim -5\%)$

PERFORMANCE DATA Discharge Rates in Watts to Various End Voltages at 25°C

Time \ End Voltage	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
5 min	2591	3185	3413	3514	3616	3726
10 min	2168	2530	2670	2763	2888	2950
15 min	1976	2059	2116	2162	2243	2312
30 min	1311	1380	1415	1438	1484	1530
60 min	658	674	682	696	709	722
120 min	429	457	471	478	494	507
180 min	282	296	302	305	307	308
240 min	224	236	241	243	245	246
300 min	183	190	194	199	202	209
600 min	107	108	109	112	115	118
1200 min	53.7	55.9	57.8	58.4	59.1	59.7

Discharge Rates in Amperes to Various End Voltages at 25°C

Time \ End Voltage	11.10V	10.80V	10.50V	10.20V	9.90V	9.60V
5 min	236	268	298	321	367	405
10 min	209	224	237	249	260	285
15 min	165	172	184	188	195	206
30 min	114	120	123	125	129	133
60 min	58.4	59.8	60.5	61.7	62.9	64.0
120 min	37.3	39.8	40.9	41.6	43.0	44.1
180 min	24.0	25.2	25.7	26.0	26.2	26.3
240 min	19.5	20.5	20.9	21.1	21.3	21.4
300 min	16.2	16.8	17.2	17.6	18.0	18.6
600 min	9.85	9.91	10.1	10.3	10.6	10.9
1200 min	4.67	4.86	5.03	5.08	5.14	5.19

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