Valve Regulated Lead Acid Battery

WP9-6A

Specifications

Nominal Voltage(V)

6V

Nominal Capacity

20 hour rate	(0.45A	to	5.25V)	9Ah
10 hour rate	(0.855A	to	5.25V)	8.55Ah
5 hour rate	(1.53A	to	5.1V)	7.65Ah
1 C	(9A	to	4.8V)	5.1Ah
3 C	(27A	to	4.8V)	3.6Ah

Weight

Approx. 1.7kg(3.74Lbs.)

Internal Resistance (at 1KHz)

Approx. 10 mΩ

Maximum Discharge Current for

5 seconds: 135A

Charging Methods at 25℃(77℉)

Cycle use:

Charging Voltage	7.20 to 7.50V
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	2.7A

Standby use:

Float Charging Voltage	6.75 to 6.90V
Coefficient -3.0mV/℃/cell	

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	92%
3 month	90%
6 month	80%

Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Design Life

3-5 Years.

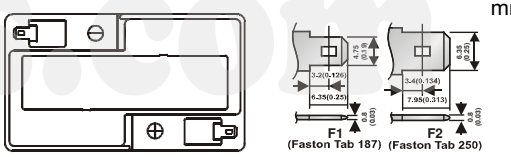
Terminal

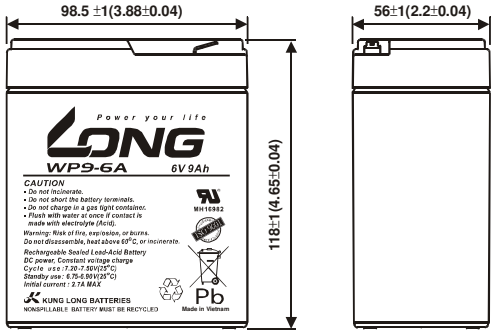
F1 or F2 (Faston Tab 187 or 250)

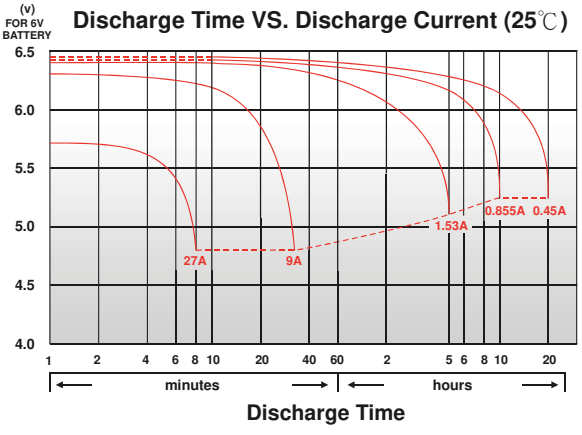
Dimensions

Length (L)	98.5±1 (3.88±0.04)
Width (W)	56±1 (2.20±0.04)
Height (H)	118±1 (4.65±0.04)
Overall Height (HT)	118±1 (4.65±0.04)

mm(inch)







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Power your life

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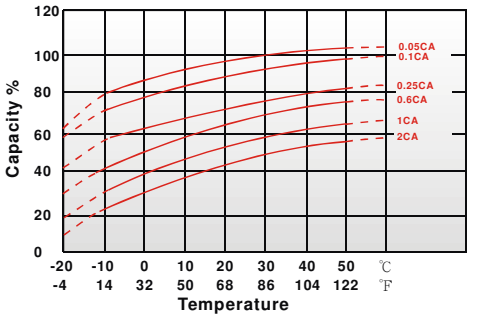
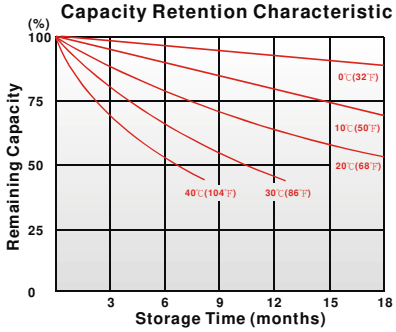
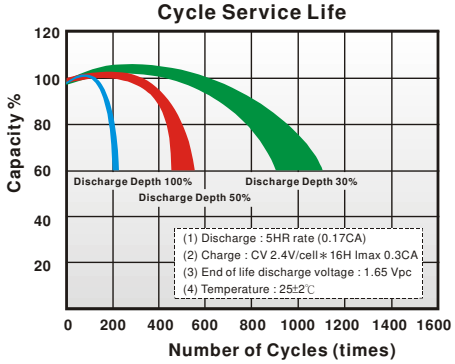
Effect of Temperature on Capacity 25℃(77℉)



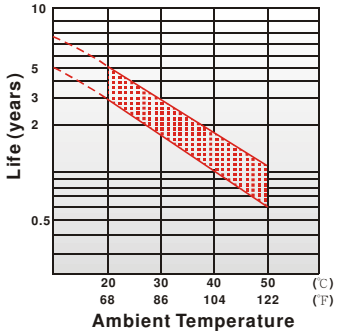
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



- PERFORMANCE DATA

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	48.0	54.3	59.3	63.7	65.3	67.2	70.7
10	min	34.0	38.1	41.0	43.3	44.2	45.7	47.3
15	min	28.8	29.9	30.9	32.1	32.7	33.7	34.6
30	min	14.4	15.2	16.0	16.7	16.8	17.0	18.1
60	min	9.57	10.1	10.4	10.7	10.9	11.0	11.2
120	min	6.73	7.13	7.32	7.46	7.50	7.53	7.58
180	min	4.30	4.57	4.72	4.85	4.90	4.98	5.08
240	min	3.43	3.57	3.67	3.77	3.82	3.88	3.95
300	min	3.01	3.10	3.17	3.22	3.23	3.27	3.30
600	min	1.69	1.76	1.80	1.83	1.85	1.87	1.89
1200	min	0.87	0.91	0.94	0.95	0.96	0.96	0.97

- Discharge Rates in Amperes to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	24.7	27.8	30.4	32.7	33.8	35.0	36.9
10	min	18.5	20.6	22.2	23.5	24.0	24.6	25.4
15	min	13.9	14.7	15.9	16.8	17.1	17.5	18.1
30	min	8.21	8.76	9.05	9.29	9.38	9.51	9.69
60	min	4.78	5.14	5.31	5.47	5.54	5.62	5.74
120	min	2.84	3.09	3.17	3.30	3.35	3.41	3.49
180	min	1.96	2.12	2.25	2.36	2.40	2.45	2.52
240	min	1.64	1.73	1.80	1.86	1.88	1.91	1.94
300	min	1.41	1.48	1.53	1.57	1.58	1.60	1.62
600	min	0.872	0.886	0.900	0.911	0.916	0.922	0.929
1200	min	0.435	0.450	0.459	0.464	0.467	0.470	0.474

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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廣隆光電科技股份有限公司
KUNG LONG BATTERIES INDUSTRIAL CO., LTD.

Head Quarter Service TEL: +886-49-2254-777 FAX: +886-49-2255-139 E-mail: sales@mail.klb.com.tw
USA Customer Service TEL: +1-949-328-7936 FAX: +1-949-266-9917 E-mail: sales@kunglong.com
Vietnam Customer Service TEL: +84-272-3779666 FAX: +84-272-3779476 E-mail: sales@mail.klb.com.tw

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