Valve Regulated Lead Acid Battery

WP20-6

Specifications

Nominal Voltage(V)

6V

Nominal Capacity

20 hour rate	(1A	to	5.25V)	20Ah
10 hour rate	(1.9A	to	5.25V)	19Ah
5 hour rate	(3.4A	to	5.1V)	17Ah
1 C	(20A	to	4.8V)	11.33Ah
3 C	(60A	to	4.8V)	8Ah

Weight

Approx. 3.89kg(8.56Lbs.)

Internal Resistance (at 1KHz)

Approx. 5 mΩ

Maximum Discharge Current for

5 seconds: 300A

Charging Methods at 25℃(77℉)

Cycle use:

Charging Voltage	7.20 to 7.50V
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	6A

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.

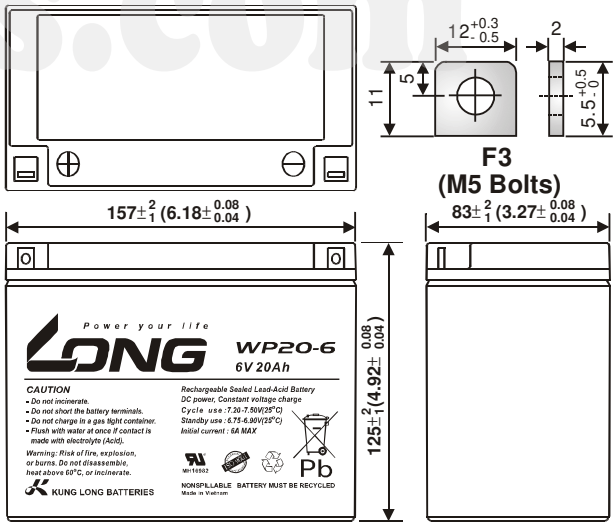
Terminal

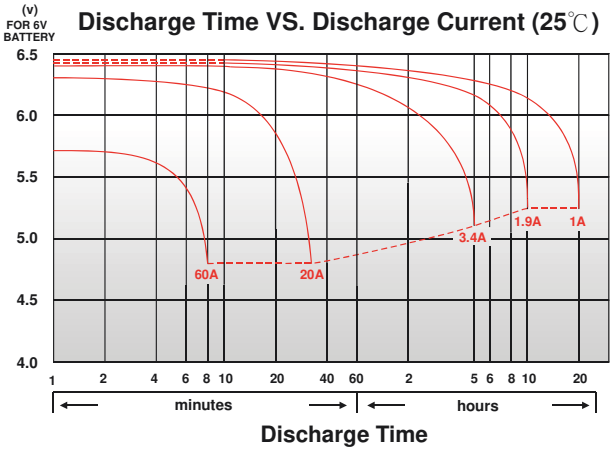
F3

Dimensions

Length (L)	157+2-1 (6.18+0.08-0.04)
Width (W)	83+2-1 (3.27+0.08-0.04)
Height (H)	125+2-1 (4.92+0.08-0.04)
Overall Height (HT)	125+2-1 (4.92+0.08-0.04)

mm(inch)





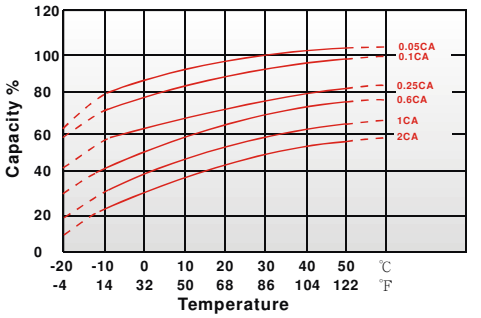
baterias.com

Power your life

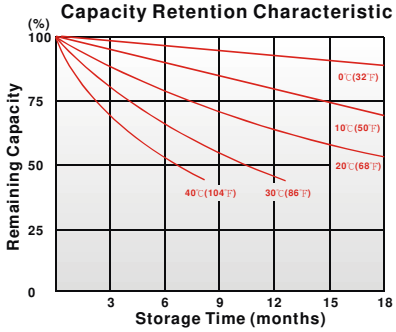
Valve Regulated Lead Acid Battery

WP20-6

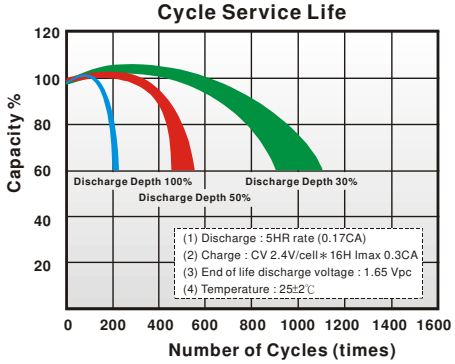
Effect of Temperature on Capacity 25℃(77℉)



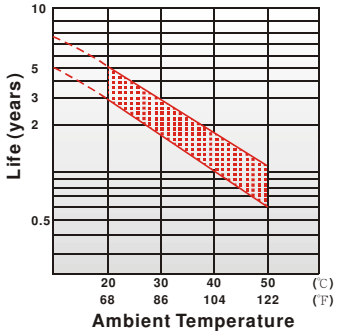
Capacity Retention Characteristic



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	110	128	139	146	148	150	152
10	min	78.7	88.8	96.2	101	102	103	105
15	min	68.2	75.5	80.4	83.5	84.3	85.2	85.9
30	min	35.5	37.9	40.6	42.2	42.7	43.1	43.6
60	min	22.2	23.2	24.0	24.7	24.8	25.2	25.5
120	min	12.2	12.7	13.0	13.5	13.6	13.7	13.8
180	min	9.53	9.88	10.1	10.3	10.4	10.5	10.6
240	min	7.63	7.93	8.12	8.27	8.32	8.38	8.46
300	min	6.65	6.87	7.00	7.10	7.13	7.18	7.24
600	min	3.87	3.98	4.07	4.13	4.15	4.19	4.22
1200	min	2.05	2.12	2.17	2.20	2.22	2.23	2.25

- 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	69.6	75.4	79.1	82.3	83.7	85.1	87.6
10	min	46.7	49.9	52.4	54.6	55.5	56.5	58.2
15	min	35.4	38.1	39.8	41.3	41.9	42.6	43.5
30	min	18.9	20.4	21.5	22.4	22.7	23.1	23.6
60	min	11.1	11.7	12.2	12.6	12.7	12.9	13.1
120	min	6.25	6.47	6.61	6.73	6.77	6.82	6.89
180	min	4.73	4.90	5.00	5.08	5.11	5.15	5.21
240	min	3.88	3.97	4.04	4.09	4.11	4.14	4.17
300	min	3.41	3.48	3.53	3.57	3.58	3.60	3.62
600	min	1.97	2.00	2.02	2.04	2.05	2.06	2.07
1200	min	1.00	1.03	1.05	1.07	1.08	1.09	1.10

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%)

260918-1F

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

Contents in this data sheet are subject to change for improvement without prior notice to users. For clarifications and updated information, please contact us.