Power your life

Valve Regulated Lead Acid Battery

WP2.2-12

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(0.11A	to	10.50V)	2.2Ah
10 hour rate	(0.209A	to	10.50V)	2.09Ah
5 hour rate	(0.374A	to	10.20V)	1.87Ah
1 C	(2.2A	to	9.60V)	1.25Ah
3 C	(6.6A	to	9.60V)	0.88Ah

Weight

Approx. 1.04kg(2.29Lbs.)

Internal Resistance (at 1KHz)

Approx. 37 mΩ

Maximum Discharge Current for

5 seconds: 33A

Charging Methods at 25℃(77℉)

Cycle use:

Charging Voltage	14.4 to 15.0V
Coefficient -5.0mV/℃/cell	
Maximum Charging Current：	0.66A

Standby use:

Float Charging Voltage	13.5 to 13.8V
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

6-9 Years.

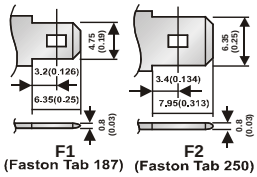
Terminal

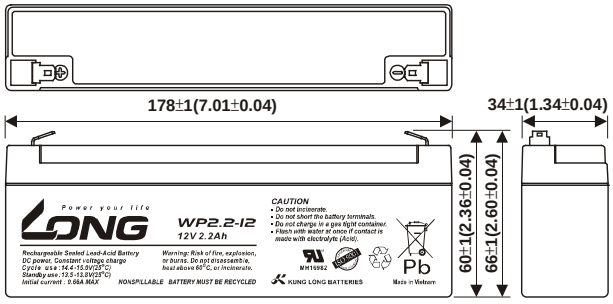
F1 or F2 (Faston Tab 187 or 250)

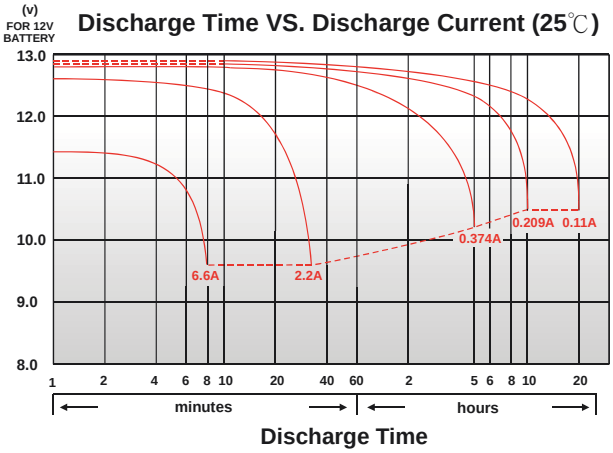
Dimensions

Length (L)	178±1 (7.01±0.04)
Width (W)	34±1 (1.34±0.04)
Height (H)	60±1 (2.36±0.04)
Overall Height (HT)	66±1 (2.60±0.04)

mm(inch)







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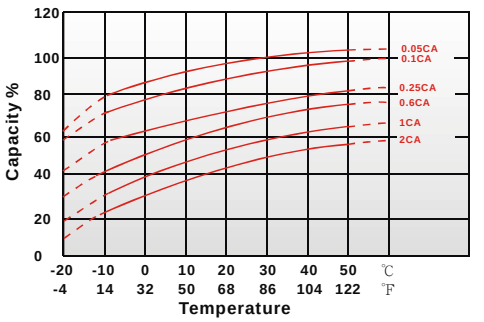
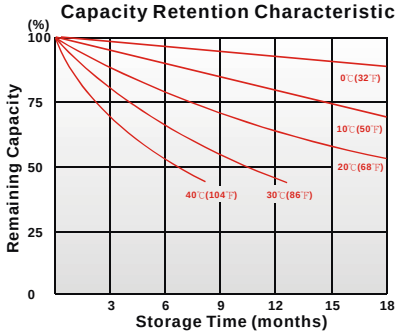
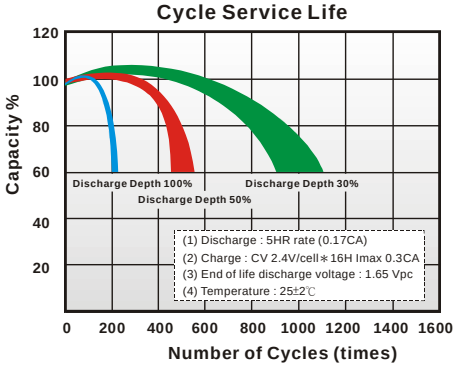
Effect of Temperature on Capacity 25℃(77℉)



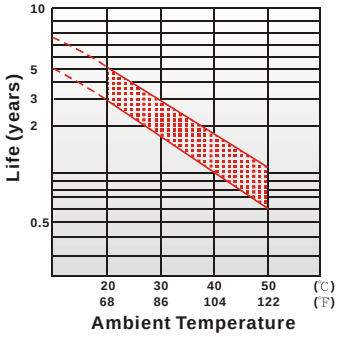
Capacity Retention Characteristic



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	11.2	13.6	14.7	15.2	15.5	15.7	16.1
10	min	7.70	9.32	10.0	10.5	10.7	10.8	10.9
15	min	6.72	7.46	7.70	7.90	7.97	8.01	8.10
30	min	3.60	3.88	4.02	4.13	4.15	4.21	4.27
60	min	2.25	2.43	2.59	2.66	2.68	2.71	2.74
120	min	1.35	1.46	1.53	1.59	1.61	1.64	1.68
180	min	1.01	1.11	1.15	1.19	1.20	1.22	1.25
240	min	0.824	0.892	0.932	0.962	0.973	0.985	0.995
300	min	0.688	0.765	0.787	0.802	0.807	0.813	0.820
600	min	0.405	0.442	0.455	0.463	0.467	0.470	0.473
1200	min	0.220	0.230	0.237	0.242	0.244	0.245	0.246

- 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	7.24	7.85	8.36	8.79	8.99	9.16	9.45
10	min	4.55	5.10	5.39	5.61	5.68	5.77	5.88
15	min	3.64	3.88	4.05	4.18	4.23	4.27	4.33
30	min	1.85	2.04	2.13	2.20	2.22	2.25	2.29
60	min	1.18	1.27	1.32	1.36	1.37	1.39	1.41
120	min	0.655	0.718	0.752	0.783	0.796	0.813	0.836
180	min	0.486	0.538	0.561	0.583	0.591	0.601	0.615
240	min	0.393	0.429	0.451	0.470	0.475	0.483	0.491
300	min	0.351	0.369	0.382	0.390	0.394	0.399	0.404
600	min	0.208	0.216	0.222	0.227	0.228	0.230	0.232
1200	min	0.109	0.113	0.116	0.118	0.119	0.120	0.121

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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