

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 365W/cell to 1.67V/cell

Nominal Capacity

20 hour rate	(4.75A to 10.50V)	95Ah
10 hour rate	(9.0A to 10.50V)	90Ah
8 hour rate	(9.57A to 10.50V)	76.54Ah
5 hour rate	(15.3A to 10.20V)	76.5Ah

Weight

Approx. 29.5kg(64.9Lbs.)

Internal Resistance (at 1KHz)

Approx. 5.0 mΩ

Maximum Discharge Current for

5 seconds: 1140A

Short Circuit Current (A) IEC 60896-21-22

2350 A

Charging Methods at 25°C(77°F)

Maximum Charging Current :	28.5A
Boost Charging Voltage	14.10 to 14.40V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.50 to 13.65V
Coefficient	-3.0mV/°C/cell

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	98%
3 month	96%
6 month	94%

Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Battery Construction

Component	Positive Plate	Negative plate	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	Rubber	Lead	AGM	Sulfuric acid



⚡ Dimensions

Length (L)

306±3 (12.05±0.12)

Width (W)

168±3 (6.61±0.12)

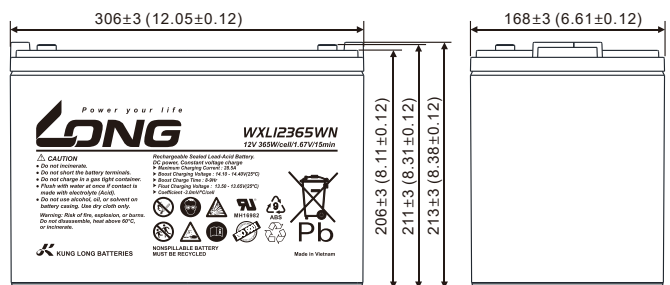
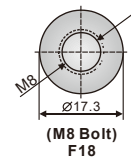
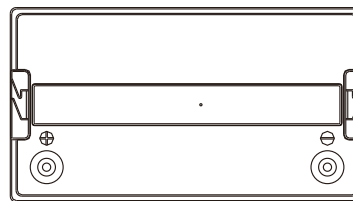
Height (H)

206±3 (8.11±0.12)

Overall Height (HT)

213±3 (8.38±0.12)

mm(inch)



Terminal

F18

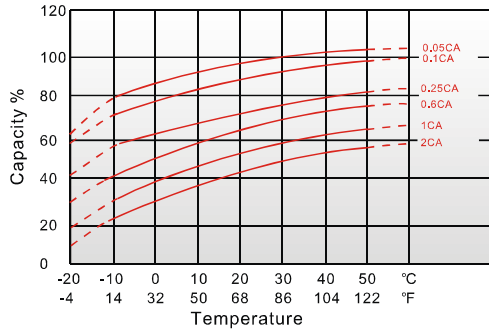
Recommended torque value M8: 12 N-m (122 kgf-cm)

Maximum allowable torque value M8: 20 N-m (204 kgf-cm)

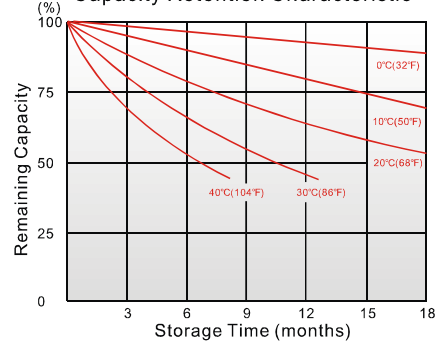
Design Life

Expected Trickle Design Life: 10-12 years at 20°C according to Eurobat.

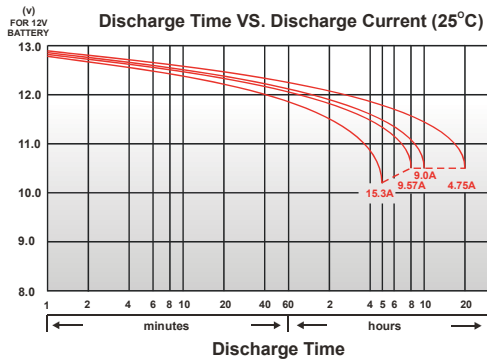
Effect of Temperature on Capacity 25°C(77°F)



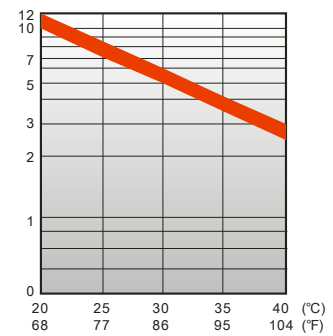
Capacity Retention Characteristic



Discharge Time VS. Discharge Current (25°C)



Trickle (or float) Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.83V	1.80V	1.75V	1.70V	1.67V	1.63V	1.60V
Time	min	588	606	639	686	726	747	765	784
5	min	399	409	428	454	474	484	491	498
10	min	309	316	328	345	359	365	369	373
15	min	251	255	264	277	287	291	294	297
20	min	191	194	199	208	214	216	217	
30	min	152	154	158	164	168	170		
40	min	128	130	133	137	140	142		
50	min	112	113	116	119	122	123		
60	min	63.2	63.7	64.6	66.0				
120	min								

- Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.83V	1.80V	1.75V	1.70V	1.67V	1.60V
Time	min	316	325	343	368	390	408	421
5	min	161	164	171	180	187	191	194
15	min	97	99	102	106	109	111	
30	min	56	57	58	60	61	62	
60	min	31.6	31.8	32.3	33.0			
120	min	17.1	17.2	17.4	17.7			
240	min	9.1	9.1	9.2	9.4			
480	min	8.6	8.7	8.8	9.0			
600	min	4.43	4.47	4.55	4.65			
1200	min							

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

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

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