

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 800W/cell to 1.67V/cell

Nominal Capacity

20 hour rate	(10.5A to 10.50V)	210Ah
10 hour rate	(19.95A to 10.50V)	199.5Ah
8 hour rate	(23.1A to 10.50V)	184.8Ah
5 hour rate	(35.6A to 10.20V)	178Ah

Weight

Approx. 66kg(145Lbs.)

Internal Resistance (at 1KHz)

Approx. 2.5 mΩ

Maximum Discharge Current for

5 seconds: 1680A

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

3700 A

Charging Methods at 25°C(77°F)

Maximum Charging Current :	63A
Boost Charging Voltage	14.1 to 14.4V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.5 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	Copper	AGM	Sulfuric acid



⚡ Dimensions

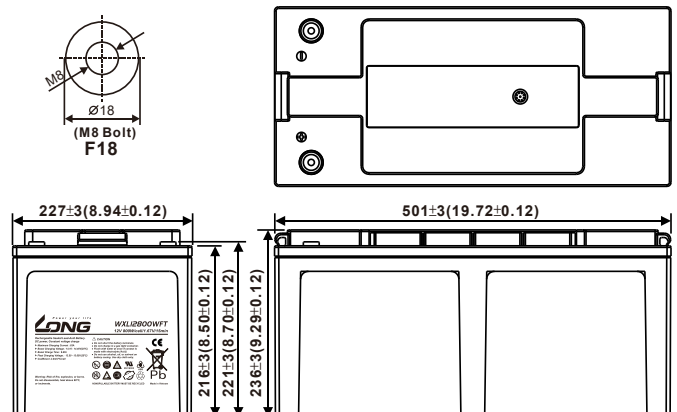
Length (L) 501±3(19.72±0.12)

Width (W) 227±3 (8.94±0.12)

Height (H) 216±3 (8.50±0.12)

Overall Height (HT) 236±3 (9.29±0.12)

mm(inch)



Terminal

F18

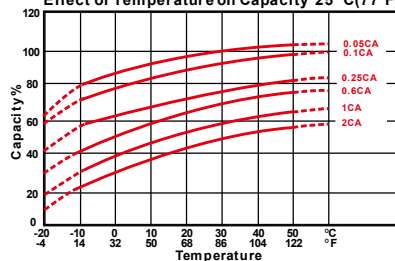
Recommended torque value M8: 12 N-m (122 kgf-cm)

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

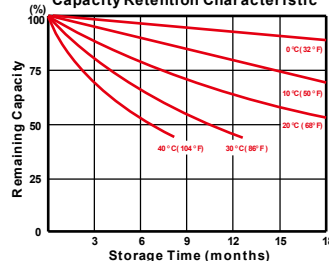
Design Life

EUROBAT(20°C) : >12 YEARS VERY LONG LIFE

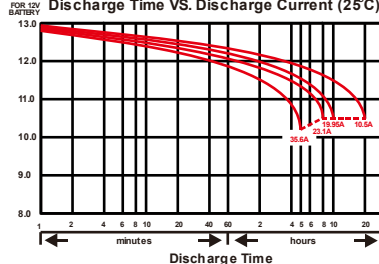
Effect of Temperature on Capacity 25°C(77°F)



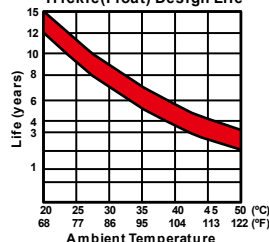
Capacity Retention Characteristic



Discharge Time VS. Discharge Current (25°C)



Influence of Temperature on Trickle(Float) Design Life



- PERFORMANCE DATA

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

End Voltage		1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time							
5	min	1004	1107	1167	1185	1198	1228
10	min	904	964	995	1004	1010	1029
15	min	737	770	787	800	802	805
30	min	459	474	482	484	485	490
45	min	333	342	347	349	350	352
60	min	273	283	287	289	290	291
120	min	157	161	163	163	164	165
180	min	112	116	118	118	119	119
240	min	87.8	90.7	92.1	92.5	92.8	93.2
300	min	73.7	76.0	77.1	77.4	77.7	77.9
360	min	64.4	66.4	67.4	67.7	67.9	68.1
480	min	49.8	51.1	51.8	52.0	52.1	52.3
600	min	41.6	42.4	42.7	42.8	42.9	43.1
1200	min	22.7	23.0	23.2	23.2	23.3	23.3

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

End Voltage		1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time							
5	min	534	612	669	676	688	713
10	min	485	526	559	562	568	581
15	min	392	414	432	435	440	447
30	min	237	246	253	254	256	260
45	min	165	170	174	175	176	179
60	min	133	137	140	141	142	143
120	min	74.8	76.8	77.9	78.1	78.5	79.2
180	min	53.0	54.8	55.8	55.9	56.2	56.7
240	min	41.3	42.6	43.2	43.4	43.6	44.0
300	min	33.9	35.0	35.6	35.9	36.2	36.6
360	min	29.5	30.5	31.0	31.2	31.5	31.8
480	min	22.5	23.1	23.4	23.6	23.9	24.1
600	min	20.0	20.4	20.6	20.7	20.8	21.0
1200	min	10.5	10.6	10.7	10.7	10.7	10.8

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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