

### Specifications

#### Nominal Voltage(V)

12V

#### Nominal Power

15 mins rate: 550W/cell to 1.67V/cell

#### Nominal Capacity

10 hour rate	(14A to 10.80V)	140Ah
8 hour rate	(15.4A to 10.50V)	123Ah
5 hour rate	(23.8A to 10.20V)	119Ah

#### Weight

Approx. 45kg(99Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 3.5 mΩ

#### Maximum Discharge Current for

5 seconds: 1400A

#### Short Circuit Current (A)

4775 A

#### Charging Methods at 25°C(77°F)

Maximum Charging Current :	42A
Boost Charging Voltage	14.1 to 14.7V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.5 to 13.8V
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	Fiberglass	Sulfuric acid



### Dimensions

#### Length (L)

338±2-1 (13.31±0.08-0.04)

#### Width (W)

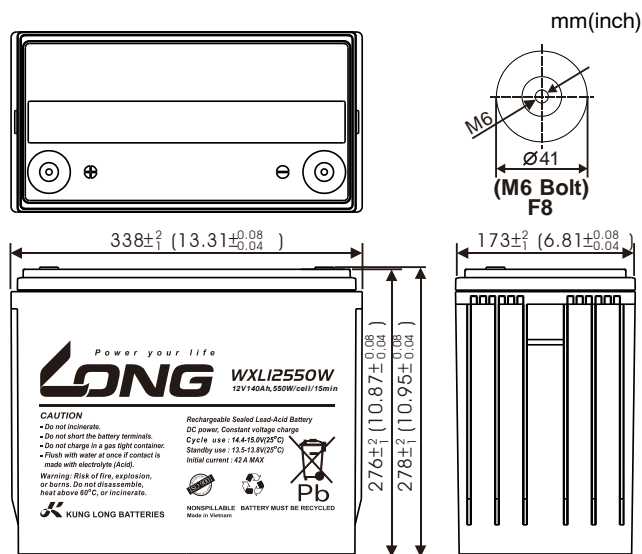
173±2-1 (6.81±0.08-0.04)

#### Height (H)

276±2-1 (10.87±0.08-0.04)

#### Overall Height (HT)

278±2-1 (10.95±0.08-0.04)



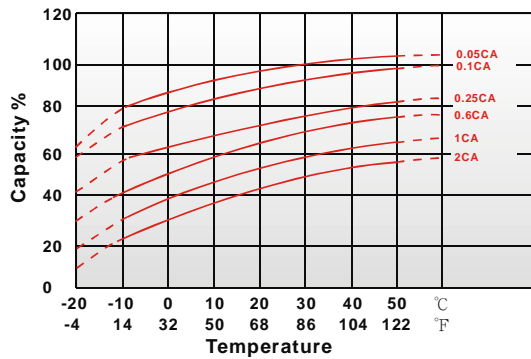
#### Terminal

F8

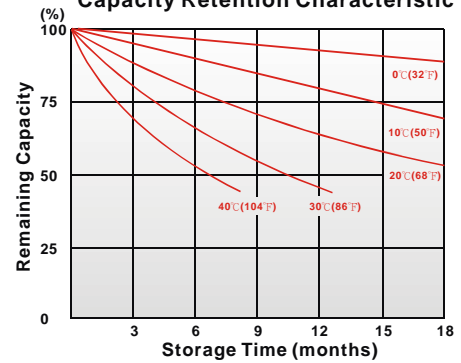
#### Design Life

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

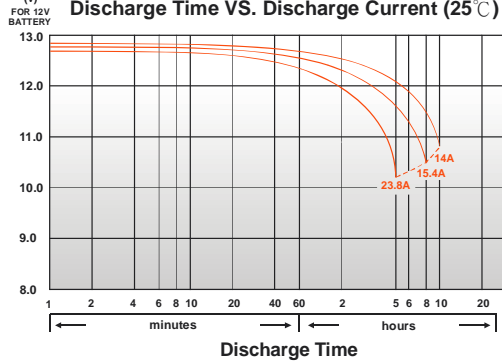
**Effect of Temperature on Capacity 25°C(77°F)**



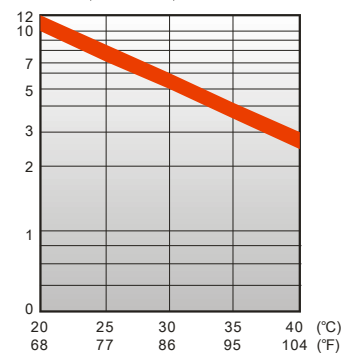
**Capacity Retention Characteristic**



**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	1.60V
Time								
5	min	685	717	757	811	857	885	950
10	min	525	553	588	635	667	682	707
15	min	432	452	479	513	536	550	557
20	min	369	385	405	431	446	452	460
30	min	290	299	312	327	335	339	343
40	min	240	247	254	263	269	271	273
50	min	206	210	216	222	226	227	229
60	min	180	183	188	192	194	195	197
120	min	105	106	107	108	109	110	111

**- 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								
5	min	349	378	408	450	493	522	593
15	min	212	229	248	273	290	297	310
30	min	143	150	161	172	179	182	185
60	min	90.6	93.2	96.8	101	103	104	105
120	min	54.0	54.3	55.0	56.0	56.6	56.8	57.2
180	min	38.5	38.6	38.9	39.2	39.4	39.5	39.9
240	min	30.0	30.1	30.2	30.4	30.5	30.6	30.9
360	min	20.7	20.9	21.1	21.2	21.3	21.4	21.5
600	min	13.0	13.5	14.0	14.05	14.1	14.2	14.3

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%)

190620-1B-V