Power your life

High Rate Long Life Battery

WXL12300WN

Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate:	300W/cell	to	1.67V/cell

Nominal Capacity

20	hour rate	(3.75A	to	10.50V)	75Ah
10	hour rate	(7.125A	to	10.50V)	71.25Ah
8	hour rate	(8.625A	to	10.50V)	69Ah
5	hour rate	(12.75A	to	10.20V)	63.75Ah

Weight

Approx. 24.2kg(53.24Lbs.)

Internal Resistance (at 1KHz)

Approx. 5.0 mΩ

Maximum Discharge Current for

5 seconds: 900A

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

2000 A

Charging Methods at 25℃(77℉)

Maximum Charging Current :	22.5A
Boost Charging Voltage	14.10 to 14.40V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.50 to 13.65V
Coefficient -3.0mV/℃/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	98%
3 month	96%
6 month	94%

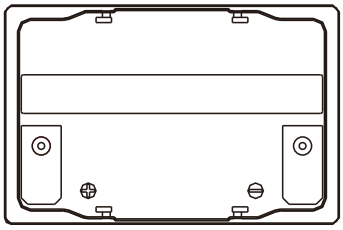
Case Material

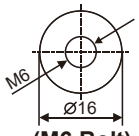
ABS UL94 HB
Option: Flammability resistance of (UL94 V-0)

Dimensions

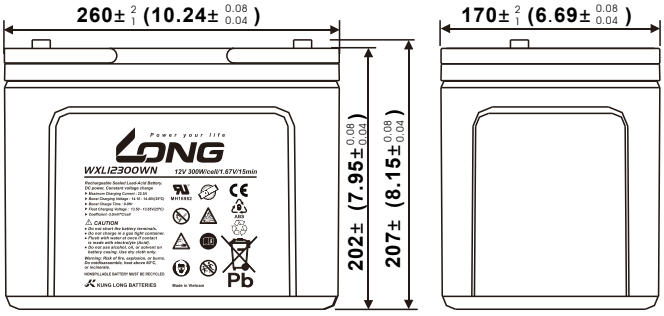
Length (L)	$260\pm^{2}_{1}$ ($10.24\pm^{0.08}_{0.04}$)
Width (W)	$170\pm^{2}_{1}$ ($6.69\pm^{0.08}_{0.04}$)
Height (H)	$202\pm^{2}_{1}$ ($7.95\pm^{0.08}_{0.04}$)
Overall Height (HT)	$207\pm^{2}_{1}$ ($8.15\pm^{0.08}_{0.04}$)

mm(inch)





(M6 Bolt)
F8



Terminal

F8

Recommended torque value	M6: 7 N-m (71 kgf-cm)
Maximum allowable torque value	M6: 10 N-m (102 kgf-cm)

Design Life

EUROBAT(20℃) : >12 YEARS VERY LONG LIFE

Battery Construction

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

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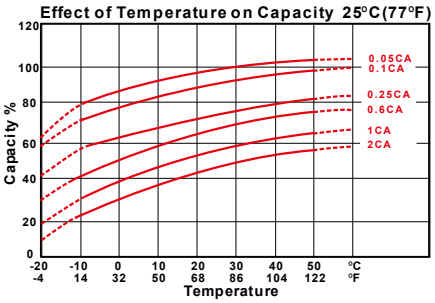

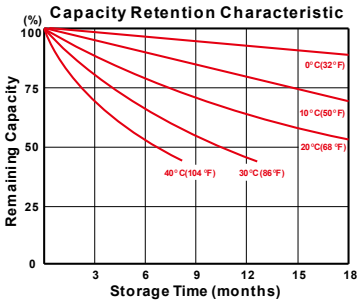

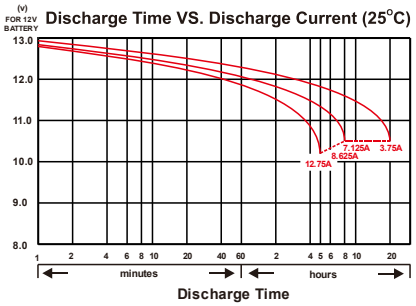

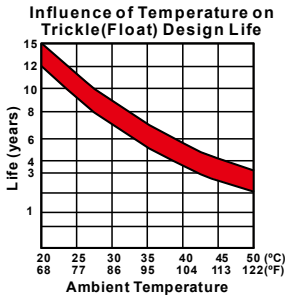

- PERFORMANCE DATA

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
2	min	560	615	660	700	730	760	785
4	min	490	562	615	655	680	695	705
5	min	451	516	565	600	620	637	650
8	min	385	430	470	495	507	517	525
10	min	360	390	415	430	437	444	448
15	min	280	292	300	306	311	315	318
30	min	173	184	190	194	197	199	200
45	min	125	129	132	134	135	136	137
60	min	95.5	96.7	97.5	97.9	98.2	98.4	98.5
90	min	68.8	69.5	70.0	70.4	70.7	70.9	71.0
120	min	54.6	56.6	58.2	58.6	58.7	58.9	59.0
180	min	38.0	38.5	38.8	39.1	39.3	39.4	39.5
240	min	30.0	30.7	31.2	31.5	31.7	31.9	32.0
300	min	24.5	25.0	25.4	25.6	25.8	25.9	26.0
480	min	16.4	16.7	16.9	17.0	17.1	17.2	17.2
600	min	14.0	14.4	14.7	14.9	15.0	15.1	15.2
1200	min	7.74	7.82	7.87	7.90	7.92	7.94	7.95

- Discharge Rates in Amperes to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.83V	1.80V	1.75V	1.70V	1.67V	1.60V
2	min	300	340	370	398	421	443	460
4	min	260	311	348	373	385	395	400
5	min	240	285	320	345	355	362	367
8	min	205	237	265	285	295	302	305
10	min	186	213	230	239	244	248	250
15	min	145	158	167	172	175	178	180
30	min	85.0	94.8	100	102	103	104	105
45	min	65.5	68.3	70.5	71.7	72.1	72.4	72.5
60	min	50.0	52.3	54.0	54.6	55.0	55.3	55.5
90	min	35.5	36.1	36.5	36.9	37.2	37.4	37.5
120	min	27.1	29.3	30.7	31.2	31.4	31.6	31.7
180	min	19.5	20.1	20.5	20.8	21.0	21.2	21.3
240	min	15.0	15.8	16.5	16.7	16.8	16.9	17.0
300	min	12.0	12.7	13.3	13.6	13.7	13.8	13.9
480	min	8.53	8.89	9.20	9.23	9.25	9.26	9.27
600	min	7.20	7.54	7.77	7.88	7.93	7.97	8.00
1200	min	3.75	3.90	4.00	4.02	4.03	4.04	4.05

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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