Power your life

High Temperature Batteries

HTP12550WN

Specifications

Nominal Voltage(V)

12V

Nominal Power

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

Nominal Capacity

20 hour rate	(7.0A	to	10.50V)	140Ah
10 hour rate	(13.3A	to	10.50V)	133Ah
8 hour rate	(16.1A	to	10.50V)	128.8Ah
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) IEC 60896 -21-22

3850A

Charging Methods at 25℃(77℉)

Maximum Charging Current：			42A
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	45℃(113℉)
Discharge	-15℃(5℉)	to	50℃(122℉)
Storage	-15℃(5℉)	to	40℃(104℉)

Charge Retention (shelf life) at 20℃(68℉)

1 month	98%
3 month	94%
6 month	85%

Case Material

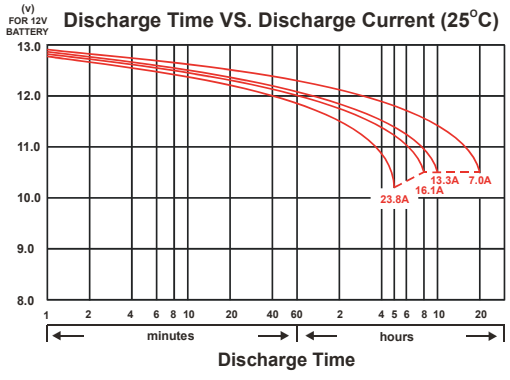
ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Design Life

EUROBAT(20℃)：>12 YEARS VERY LONG LIFE

Discharge Time VS. Discharge Current (25℃)

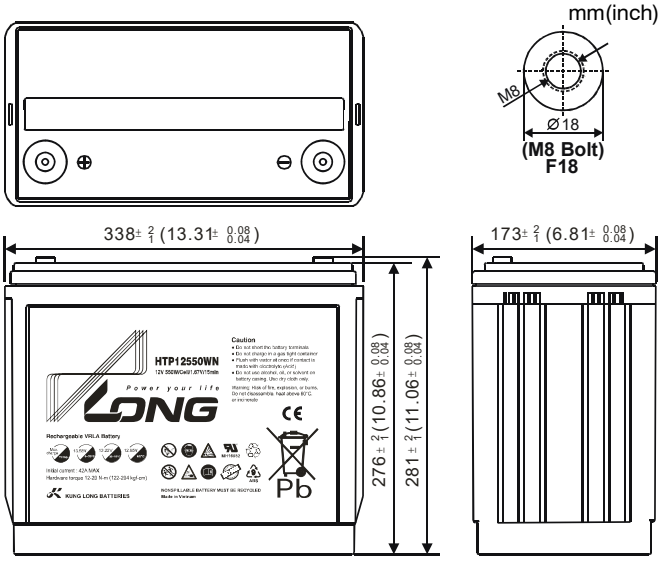


Dimensions

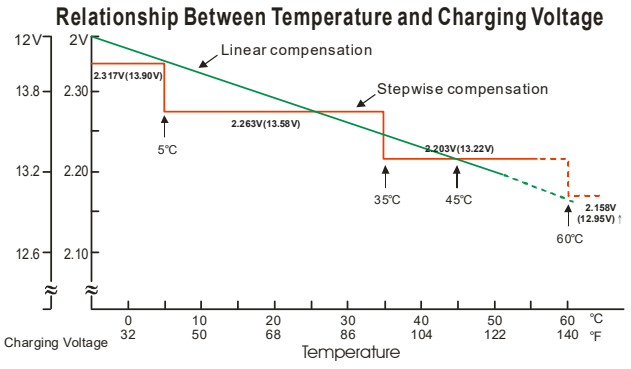
Length (L)	338^{+2}_{-1} ($13.31^{+0.08}_{-0.04}$)
Width (W)	173^{+2}_{-1} ($6.81^{+0.08}_{-0.04}$)
Height (H)	276^{+2}_{-1} ($10.87^{+0.08}_{-0.04}$)
Overall Height (HT)	281^{+2}_{-1} ($11.06^{+0.08}_{-0.04}$)
Terminal	F18

Description of torque value of hard ware for the terminals:

Recommended torque value	M8: 12 N-m (122 kgf-cm)
Maximum allowable torque value	M8: 20 N-m (204 kgf-cm)



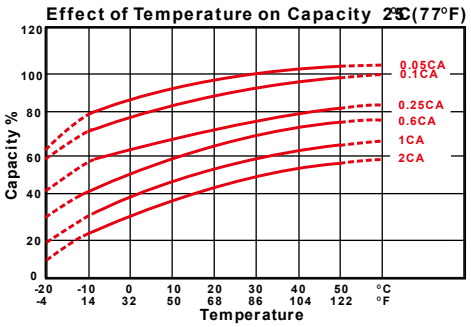
Relationship Between Temperature and Charging Voltage

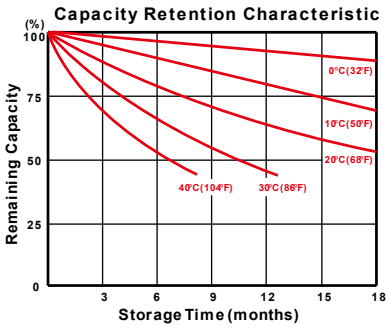


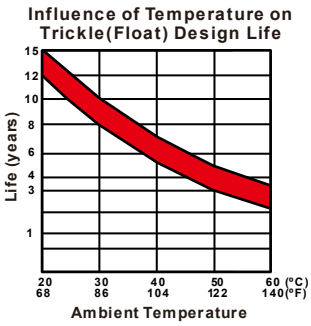
Power your life

High Temperature Batteries

HTP12550WN







- 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	808	926	1035	1144	1234	1324	1400
4	min	800	887	957	1012	1052	1082	1112
5	min	698	803	893	963	1023	1063	1096
8	min	637	695	738	773	801	819	834
10	min	570	630	672	705	738	751	761
15	min	475	515	530	543	553	558	562
30	min	300	312	317	322	325	328	330
45	min	234	239	241	243	245	246	247
60	min	151	163	171	173	175	176	177
90	min	101	109	114	119	124	127	130
120	min	84.3	87.8	90.3	91.6	92.5	93.3	93.8
180	min	66.2	68.1	69.3	70.1	70.5	70.7	70.9
240	min	49.3	50.9	51.7	52.1	52.4	52.6	52.8
300	min	42.8	44.2	45.1	45.4	45.7	45.9	46.1
480	min	26.3	27.5	28.4	28.9	29.4	29.7	30.0
600	min	24.0	25.2	25.5	25.7	25.8	25.9	25.9
1200	min	12.7	13.0	13.5	13.7	13.8	13.9	14.0

- 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
2	min	450	530	598	661	713	765	809
4	min	388	463	527	564	598	630	660
5	min	380	445	506	527	560	580	598
8	min	320	358	392	422	447	467	482
10	min	285	332	372	380	385	388	390
15	min	236	261	281	301	309	314	317
30	min	142	157	166	171	174	177	180
45	min	117	122	127	128	128	129	129
60	min	77.5	79.4	81.0	81.2	81.4	81.6	81.7
90	min	62.2	64.0	65.4	65.8	66.0	66.2	66.4
120	min	45.5	48.4	50.0	50.8	51.2	51.6	51.8
180	min	29.8	33.0	33.3	33.6	33.8	34.0	34.2
240	min	25.3	27.5	29.0	29.7	30.0	30.2	30.4
300	min	22.7	24.6	25.2	25.5	25.7	25.8	25.9
480	min	14.9	15.0	15.9	16.0	16.1	16.1	16.2
600	min	13.2	14.0	14.2	14.3	14.4	14.4	14.5
1200	min	7.12	7.30	7.40	7.41	7.42	7.43	7.43

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%)

120626-1C

廣隆光電科技股份有限公司
KUNG LONG BATTERIES INDUSTRIAL CO., LTD.

Head Quarter Service TEL: +886-49-2254-777 FAX: +886-49-2255-139 E-mail: sales@mail.klb.com.tw
USA Customer Service TEL: +1-949-328-7936 FAX: +1-949-266-9917 E-mail: sales@kunglong.com
Vietnam Customer Service TEL: +84-272-3779666 FAX: +84-272-3779476 E-mail: sales@mail.klb.com.tw

Contents in this data sheet are subject to change for improvement without prior notice to users. For clarifications and updated information, please contact us.