Power your life

High Temperature Batteries

HTP12505WN

Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate:	505W/cell	to	1.67V/cell

Nominal Capacity

20	hour rate	(6.5A	to	10.50V)	130Ah
10	hour rate	(12.35A	to	10.50V)	123.5Ah
8	hour rate	(14.95A	to	10.50V)	119.6Ah
5	hour rate	(22.1A	to	10.20V)	110.5Ah

Weight

Approx. 42kg(92.4Lbs.)

Internal Resistance (at 1KHz)

Approx. 4 mΩ

Maximum Discharge Current for

5 seconds: 1300A

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

3183A

Charging Methods at 25℃(77℉)

Maximum Charging Current：			39A
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

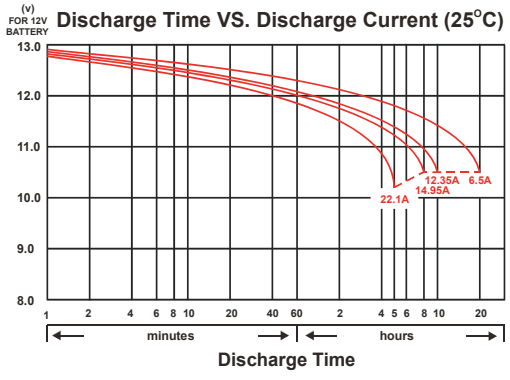
ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Design Life

EUROBAT(20℃)：>12 YEARS VERY LONG LIFE

Discharge Time VS. Discharge Current (25℃)

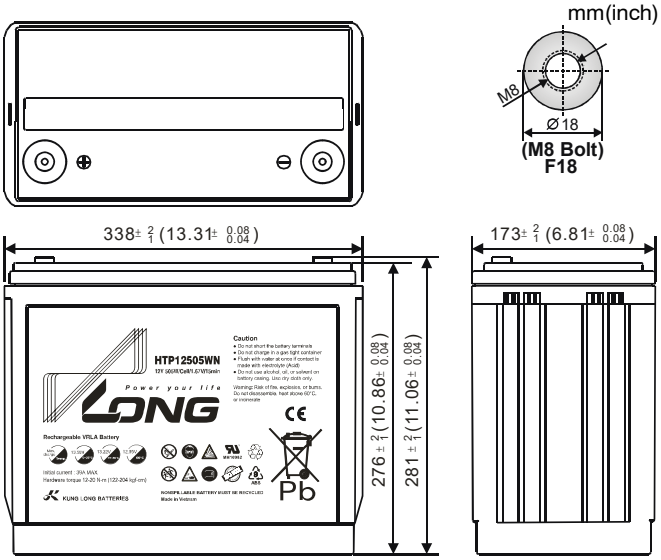


Dimensions

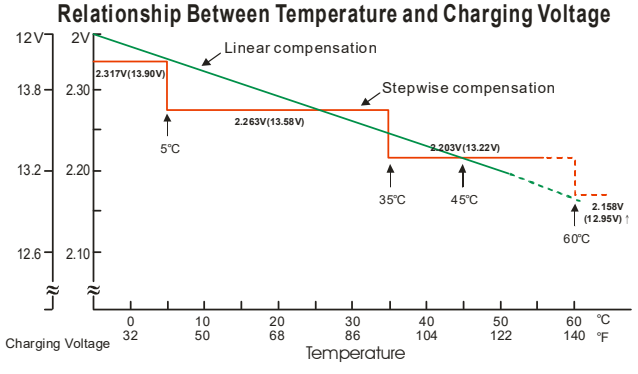
Length (L)	338^{+2}_{-1} ($13.31^{+0.08}_{-0.04}$)
Width (W)	173^{+2}_{-1} ($6.81^{+0.08}_{-0.04}$)
Height (H)	276^{+2}_{-1} ($10.87^{+0.08}_{-0.04}$)
Overall Height (HT)	281^{+2}_{-1} ($11.06^{+0.08}_{-0.04}$)
Terminal	F18

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)



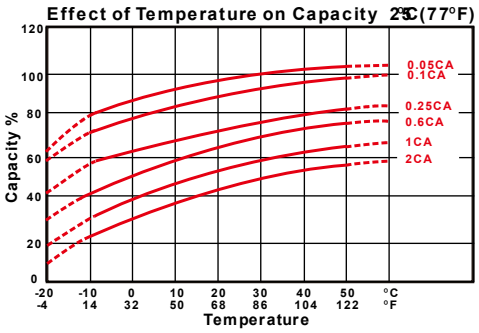
Relationship Between Temperature and Charging Voltage

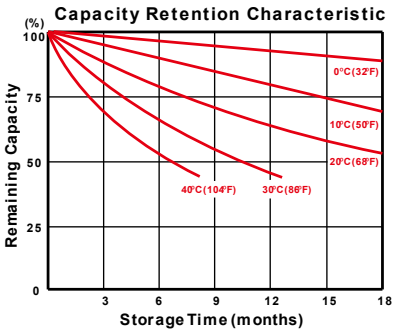


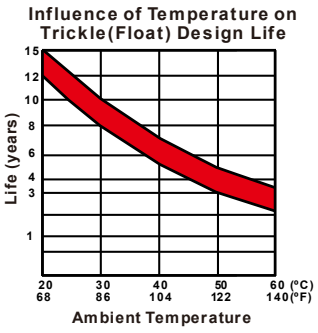
Power your life

High Temperature Batteries

HTP12505WN







- PERFORMANCE DATA

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	703	805	900	970	1035	1095	1145
4	min	665	735	795	835	885	925	950
5	min	618	683	740	797	837	872	883
8	min	525	577	620	662	700	720	735
10	min	487	542	587	605	615	623	628
15	min	379	433	479	505	508	511	514
30	min	252	271	281	287	291	295	297
45	min	200	209	216	221	224	227	230
60	min	118	127	134	139	142	144	146
90	min	91.0	105	113	116	119	121	123
120	min	78.3	82.5	85.4	87.3	88.5	89.7	90.5
180	min	50.5	57.1	63.6	64.5	65.2	65.7	66.2
240	min	46.5	48.3	49.8	50.6	50.9	51.2	51.5
300	min	42.1	43.3	44.1	44.3	44.5	44.7	44.9
480	min	24.6	25.8	26.8	27.8	28.6	29.2	29.6
1200	min	12.5	12.9	13.2	13.4	13.6	13.7	13.8

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	385	462	515	560	590	620	650
4	min	350	410	465	510	532	552	572
5	min	337	392	432	462	485	500	510
8	min	290	325	353	367	374	379	384
10	min	267	287	305	321	337	346	352
15	min	218	235	247	257	265	270	275
30	min	118	125	130	136	142	147	150
45	min	99.2	106	111	114	116	118	120
60	min	73.4	75.1	76.3	77.2	77.8	78.4	78.8
90	min	45.4	51.6	55.5	57.7	58.9	59.7	60.5
120	min	40.0	43.3	45.8	47.1	48.4	49.1	49.5
180	min	26.5	28.4	30.1	30.6	30.9	31.2	31.5
240	min	22.8	23.2	23.5	23.8	24.0	24.2	24.4
300	min	19.8	21.0	21.7	22.1	22.3	22.4	22.5
480	min	12.5	13.4	14.0	14.2	14.3	14.4	14.5
1200	min	6.65	6.75	6.79	6.81	6.82	6.83	6.84

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.