High Temperature Batteries

HTP12365WN

Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate:	365W/cell	to	1.67V/cell

Nominal Capacity

20	hour rate	(4.75A	to	10.50V)	95Ah
10	hour rate	(9.0A	to	10.50V)	90Ah
8	hour rate	(10.35A	to	10.50V)	82.8Ah
5	hour rate	(15.3A	to	10.20V)	76.5Ah

Weight

Approx. 29.5kg(64.9Lbs.)

Internal Resistance (at 1KHz)

Approx. 5.0 mΩ

Maximum Discharge Current for

5 seconds: 1140A

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

2350A

Charging Methods at 25℃(77℉)

Maximum Charging Current：			28.5A
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	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

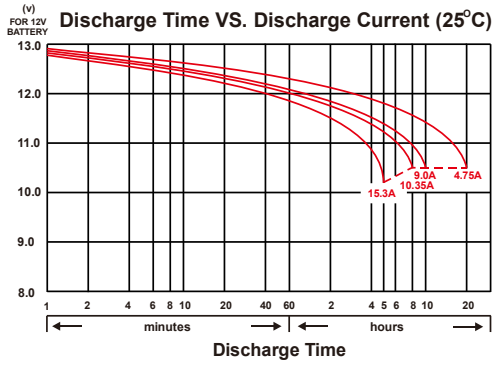
ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

Design Life

EUROBAT(20℃)：>12 YEARS VERY LONG LIFE

Discharge Time VS. Discharge Current (25℃)



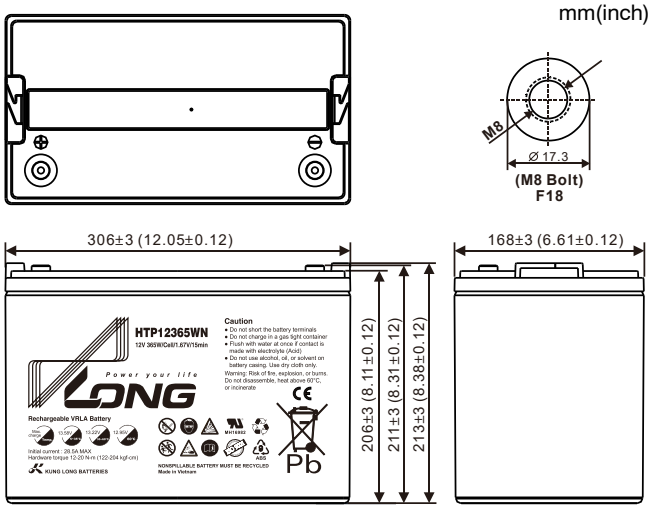
Dimensions

Length (L)	306±3(12.05±0.12)
Width (W)	168±3 (6.61±0.12)
Height (H)	206±3 (8.11±0.12)
Overall Height (HT)	213±3 (8.38±0.12)
Terminal	F18

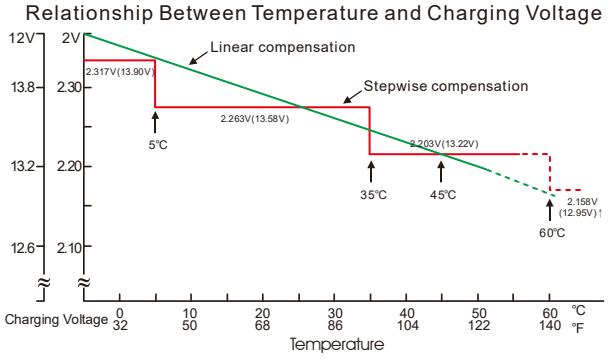
Description of torque value of hard ware for the terminals:

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

mm(inch)



Relationship Between Temperature and Charging Voltage



Power your life

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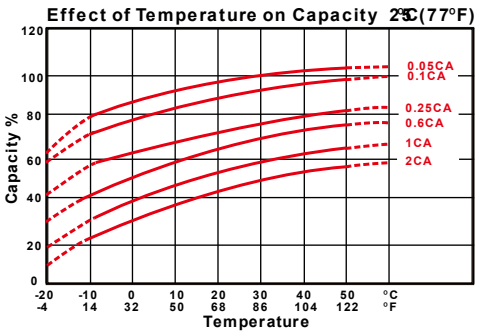

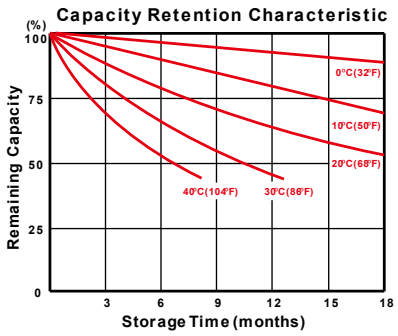

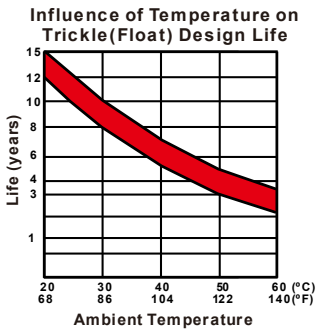

- PERFORMANCE DATA

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	605	704	785	855	905	945	965
4	min	566	646	715	770	805	830	850
5	min	518	583	636	676	700	716	730
8	min	455	497	530	542	548	552	555
10	min	395	430	460	475	484	491	495
15	min	325	342	355	361	365	368	370
30	min	200	207	213	218	221	224	226
45	min	158	164	168	170	171	172	173
60	min	113	117	121	124	126	127	128
90	min	84.2	86.9	88.9	89.9	90.3	90.5	90.6
120	min	63.2	64.4	65.3	65.8	66.2	66.5	66.7
180	min	43.2	43.9	44.5	45.0	45.4	45.6	45.7
240	min	32.6	33.7	34.5	35.0	35.3	35.5	35.6
300	min	28.3	29.2	29.8	30.1	30.3	30.4	30.5
480	min	20.1	20.5	20.7	20.9	21.0	21.1	21.2
600	min	15.7	16.4	16.9	17.1	17.2	17.2	17.3
1200	min	8.08	8.43	8.68	8.78	8.84	8.88	8.93

- 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	322	387	442	487	522	557	590
4	min	290	345	390	430	460	480	500
5	min	275	320	355	380	395	407	420
8	min	235	260	282	302	317	322	325
10	min	210	232	250	263	270	273	275
15	min	170	184	195	203	206	208	209
30	min	100	104	107	110	112	113	114
45	min	84.5	85.8	86.8	87.3	87.6	87.8	88.0
60	min	58.5	59.7	60.6	61.2	61.7	62.0	62.2
90	min	44.5	46.5	47.3	47.8	48.1	48.3	48.4
120	min	32.5	35.5	38.0	39.1	39.4	39.6	39.7
180	min	21.5	22.9	23.9	24.1	24.3	24.4	24.5
240	min	16.2	17.9	19.0	19.3	19.4	19.5	19.6
300	min	13.4	15.1	16.3	16.3	16.4	16.4	16.5
480	min	10.5	10.8	11.0	11.1	11.2	11.3	11.3
600	min	8.36	8.87	9.30	9.42	9.47	9.49	9.50
1200	min	4.39	4.66	4.88	4.94	4.97	4.98	4.99

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

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