Power your life

High Temperature Batteries

HTP12450WFT

Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate:	450W/cell	to	1.67V/cell

Nominal Capacity

20	hour rate	(7.5A	to	10.50V)	150Ah
10	hour rate	(14.25A	to	10.50V)	142.5Ah
8	hour rate	(17.25A	to	10.50V)	138Ah
5	hour rate	(25.5A	to	10.20V)	127.5Ah

Weight

Approx.	44.3kg(97.5Lbs.)

Internal Resistance (at 1KHz)

Approx.	4.5 mΩ

Maximum Discharge Current for

5 seconds:	1500A

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

2432A

Charging Methods at 25℃(77℉)

Maximum Charging Current：	45A
Boost Charging Voltage	14.1 to 14.4V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.5 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%

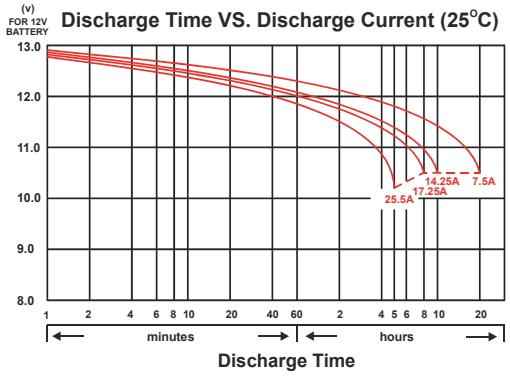
Case Material

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℃)



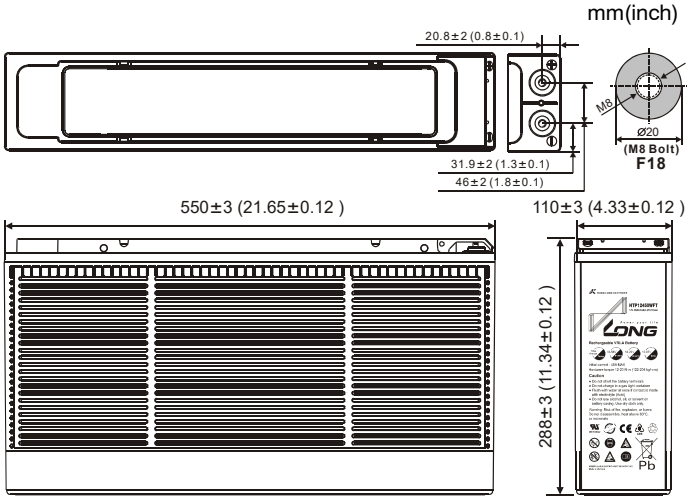
Dimensions

Length (L)	550±3 (21.65±0.12)
Width (W)	110±3 (4.33±0.12)
Height (H)	288±3 (11.34±0.12)
Overall Height (HT)	288±3 (11.34±0.12)
Terminal	F18

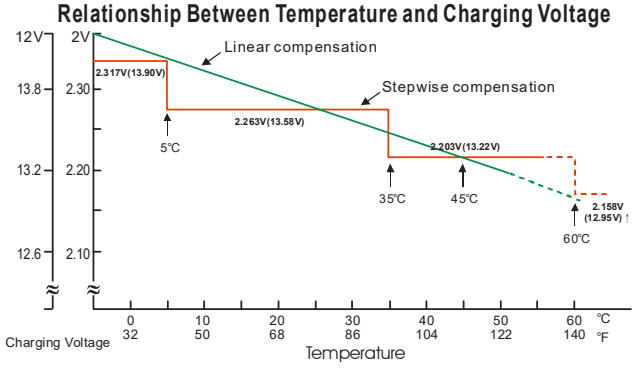
Description of torque value of hard ware for the terminals:

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



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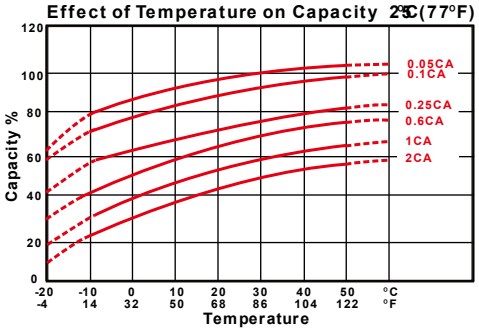

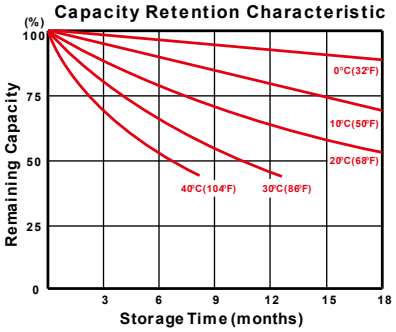

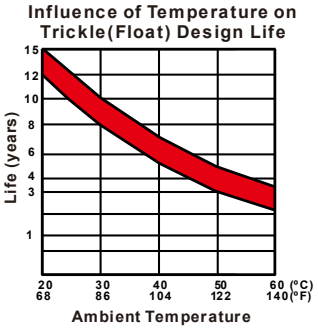

- PERFORMANCE DATA

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
10	min	360	425	480	513	535	550	560
15	min	310	375	415	445	455	462	467
30	min	187	227	258	277	284	289	295
60	min	156	166	173	176	178	179	180
120	min	83.9	87.7	91.0	93.2	94.4	95.2	96.0
180	min	66.7	69.9	72.7	74.6	75.6	76.3	76.8
240	min	54.6	57.1	59.1	60.5	61.4	61.9	62.2
300	min	45.4	47.4	48.9	49.6	49.8	49.9	50.0
480	min	30.1	31.3	32.2	32.8	33.2	33.6	33.9
600	min	27.2	28.0	28.6	29.0	29.3	29.4	29.5
1200	min	14.0	14.4	14.7	14.9	15.1	15.2	15.3

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

Time \ End Voltage		1.85V	1.83V	1.80V	1.75V	1.70V	1.67V	1.60V
10	min	193	233	268	293	308	323	333
15	min	160	200	230	255	272	287	300
30	min	105	125	141	151	155	159	161
60	min	78.6	85.0	90.0	91.1	91.7	92.2	92.6
120	min	41.5	46.2	49.5	51.0	51.9	52.8	53.6
180	min	31.7	35.3	37.5	38.6	39.2	39.7	40.2
240	min	26.0	28.4	30.0	30.8	31.2	31.6	31.8
300	min	22.0	23.9	25.5	25.6	25.7	25.8	25.9
480	min	15.4	17.3	17.4	17.5	17.6	17.7	17.8
600	min	14.0	15.0	15.1	15.2	15.3	15.4	15.5
1200	min	7.01	7.50	7.52	7.54	7.55	7.56	7.57

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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