

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 820W/cell to 1.67V/cell

Nominal Capacity

20 hour rate	(10A	to	10.50V)	200Ah
10 hour rate	(19A	to	10.50V)	190Ah
8 hour rate	(23A	to	10.50V)	184Ah
5 hour rate	(34A	to	10.20V)	170Ah

Weight

Approx. 66.4kg(146Lbs.)

Internal Resistance (at 1KHz)

Approx. 2.2 mΩ

Maximum Discharge Current for

5 seconds: 1600A

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

4040A

Charging Methods at 25°C(77°F)

Maximum Charging Current :	60A
Boost Charging Voltage	14.1 to 14.4V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.5 to 13.65V
Coefficient	-3.0mV/°C/cell

Operating Temperature Range

Charge	-15°C(5°F)	to	45°C(113°F)
Discharge	-15°C(5°F)	to	50°C(122°F)
Storage	-15°C(5°F)	to	40°C(104°F)

Charge Retention (shelf life) at 20°C(68°F)

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

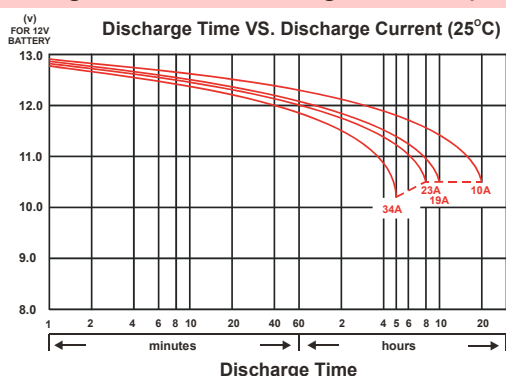
Case Material

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

Design Life

EUROBAT(20°C) : >12 YEARS VERY LONG LIFE

Discharge Time VS. Discharge Current (25°C)



⚡ Dimensions

Length (L) 522±3(20.55±0.12)

Width (W) 238±3 (9.37±0.12)

Height (H) 219±3 (8.62±0.12)

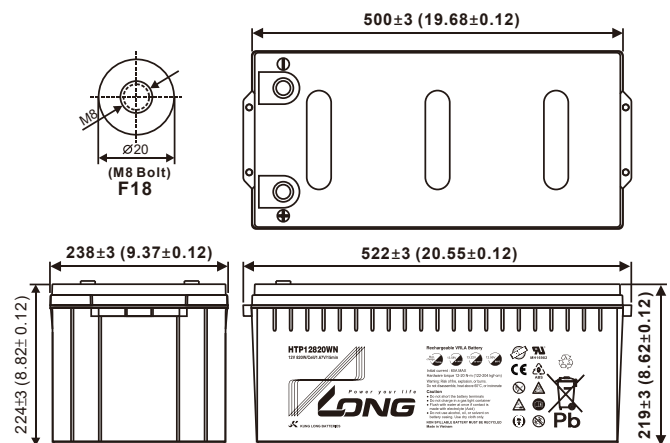
Overall Height (HT) 224±3 (8.82±0.12)

Terminal F18

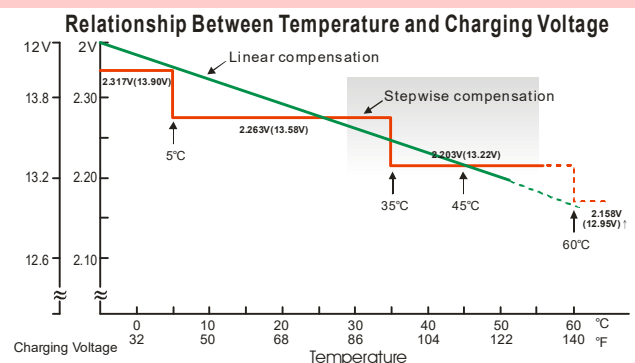
Description of torque value of hard ware for the terminals:

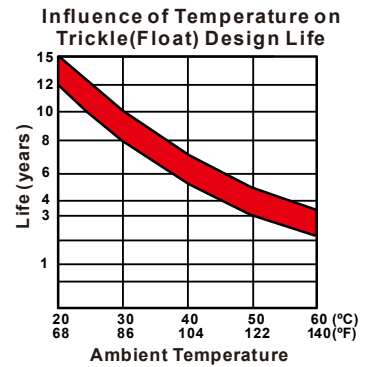
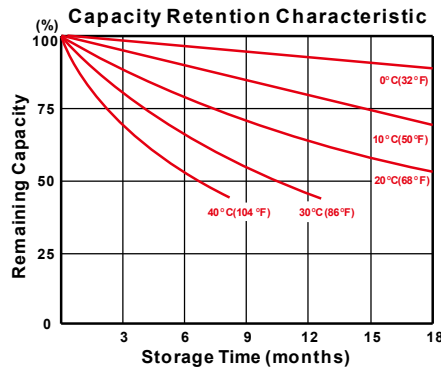
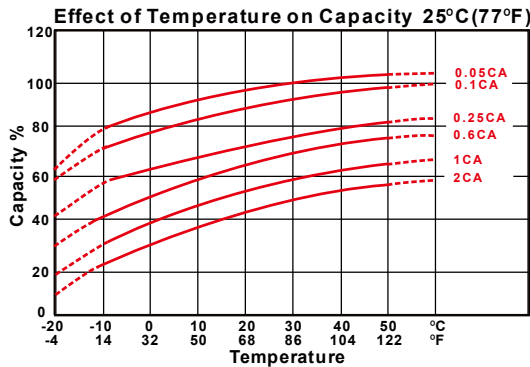
Recommended torque value	M8: 12 N-m (122 kgf-cm)
Maximum allowable torque value	M8: 20 N-m (204 kgf-cm)

mm(inch)



Relationship Between Temperature and Charging Voltage





- PERFORMANCE DATA

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	1080	1215	1335	1415	1470	1510	1530
4	min	990	1125	1220	1300	1335	1360	1375
5	min	960	1075	1185	1255	1287	1312	1335
6	min	905	1020	1130	1200	1228	1255	1275
8	min	840	935	1020	1095	1140	1175	1205
10	min	805	885	950	1004	1030	1050	1068
15	min	680	740	790	810	825	840	850
20	min	603	638	663	673	679	683	685
30	min	450	478	500	512	516	519	520
40	min	383	391	397	401	404	406	407
45	min	360	368	374	377	379	381	383
60	min	275	282	288	291	293	294	294
90	min	195	199	202	204	205	206	207
120	min	148	152	155	157	158	159	160
180	min	100	104	106	108	109	109	110
240	min	77.6	80.2	82.3	83.5	84.0	84.3	84.5
300	min	65.2	68.2	70.8	71.3	71.5	71.7	71.8
480	min	42.6	45.6	48.4	49.0	49.2	49.3	49.4
600	min	37.2	38.8	40.2	40.5	40.7	40.8	40.9
1200	min	19.4	20.2	20.7	20.9	21.0	21.0	21.1

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	580	670	750	810	850	880	905
4	min	530	605	670	730	775	815	845
5	min	510	585	650	695	735	775	810
6	min	485	560	620	665	700	735	770
8	min	450	515	580	635	663	685	700
10	min	425	480	530	577	603	625	640
15	min	360	400	435	455	470	485	500
20	min	320	345	365	380	390	400	410
30	min	235	257	275	282	285	288	290
40	min	200	212	218	222	224	225	226
45	min	183	193	200	204	206	207	208
60	min	141	148	153	155	156	157	158
90	min	100	103	105	106	107	108	108
120	min	79.0	82.5	85.8	88.0	89.6	91.1	92.4
180	min	53.5	56.8	59.7	61.6	62.8	63.7	64.0
240	min	41.2	43.5	45.6	46.8	47.5	47.8	48.0
300	min	34.0	36.6	38.9	39.2	39.4	39.5	39.6
480	min	22.8	24.5	26.0	26.4	26.6	26.7	26.8
600	min	19.0	19.6	20.0	20.4	20.7	20.9	21.0
1200	min	10.0	10.3	10.6	10.8	10.9	11.0	11.1

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)

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