

Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 220W/cell to 1.67V/cell

Nominal Capacity

20 hour rate	(3.25A to 10.50V)	65Ah
10 hour rate	(6.175A to 10.50V)	61.75Ah
8 hour rate	(7.475A to 10.50V)	59.8Ah
5 hour rate	(11.05A to 10.20V)	55.25Ah

Weight

Approx. 21.0kg(46.2Lbs.)

Internal Resistance (at 1KHz)

Approx. 4 mΩ

Maximum Discharge Current for

5 seconds: 780A

Charging Methods at 25°C(77°F)

Maximum Charging Current :	19.5A
Boost Charging Voltage	14.10 to 14.40V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.50 to 13.65V
Coefficient	-3.0mV/°C/cell

Operating Temperature Range

Charge	-15°C(5°F) to 40°C(104°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	96%
6 month	94%

Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)



Dimensions

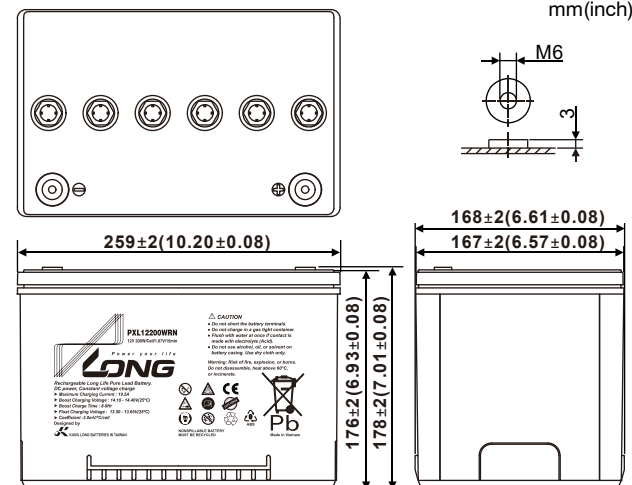
Length (L) 259±2(10.20±0.08)

Width (W) 168±2(6.61±0.08)

Height (H) 176±2(6.93±0.08)

Overall Height (HT) 178±2(7.01±0.08)

mm(inch)



Terminal

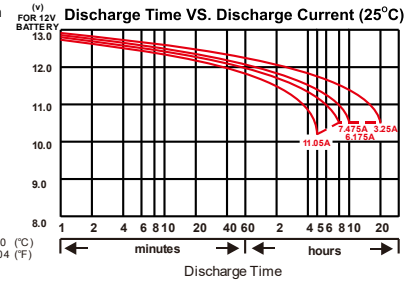
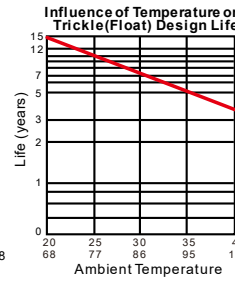
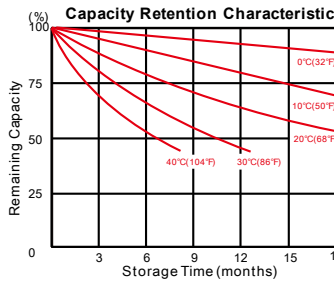
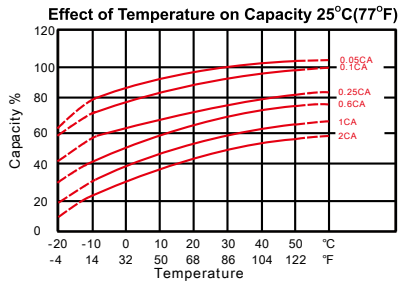
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Recommended torque value M6: 7 N-m (71 kgf-cm)

Maximum allowable torque value M6: 10 N-m (102 kgf-cm)

Design Life

15 years



PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	375	430	480	510	525	537	545
4	min	338	387	426	456	465	472	480
5	min	323	366	401	420	432	442	449
6	min	310	345	375	395	403	411	415
8	min	270	295	315	330	336	341	345
10	min	252	272	287	296	300	302	304
15	min	198	207	214	222	226	230	232
20	min	156	166	175	180	183	185	186
30	min	119	128	135	140	142	143	144
40	min	95.4	101	106	109	111	112	113
45	min	87.7	92.7	97.1	99.6	100	101	101
60	min	70.8	74.4	77.8	78.3	78.6	78.8	78.9
90	min	50.3	52.8	55.1	55.9	56.3	56.6	56.8
120	min	38.9	40.8	42.4	43.2	43.5	43.8	43.9
180	min	29.7	30.6	31.2	31.6	31.9	32.1	32.2
240	min	24.2	24.8	25.2	25.5	25.7	25.8	25.9
300	min	20.2	20.8	21.2	21.4	21.5	21.6	21.7
480	min	13.9	14.3	14.6	14.9	15.1	15.2	15.3
600	min	11.7	12.0	12.2	12.4	12.5	12.6	12.7
1200	min	5.83	5.98	6.09	6.18	6.24	6.29	6.34

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
2	min	190	235	270	295	310	323	330
4	min	172	206	235	254	269	281	291
5	min	165	194	218	238	249	259	267
6	min	155	185	204	221	230	237	240
8	min	142	160	174	184	191	196	200
10	min	130	145	158	165	168	170	171
15	min	103	112	119	124	127	129	130
20	min	81.7	88.9	95.5	98.0	99.2	100	101
30	min	60.5	66.0	70.5	73.0	74.3	75.5	76.2
40	min	49.9	52.9	55.5	57.5	58.3	58.7	58.9
45	min	45.0	48.0	50.6	52.4	52.9	53.4	53.6
60	min	37.6	39.1	40.1	40.9	41.4	41.8	42.1
90	min	26.5	27.7	28.5	29.0	29.3	29.6	29.8
120	min	20.7	21.6	22.2	22.6	22.8	23.0	23.0
180	min	15.7	16.0	16.4	16.7	16.9	17.0	17.1
240	min	12.1	12.7	13.1	13.3	13.4	13.5	13.6
300	min	10.1	10.7	11.2	11.4	11.5	11.6	11.6
480	min	7.30	7.40	7.48	7.50	7.51	7.52	7.53
600	min	6.12	6.16	6.19	6.21	6.22	6.23	6.24
1200	min	3.17	3.22	3.26	3.27	3.28	3.29	3.29

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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