

閥調式鉛酸蓄電池(VRLA)

PL100-12FLHLM-CBB (12V100AH)

規格 Type

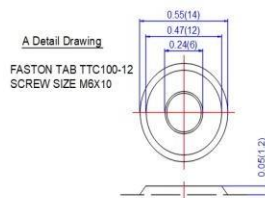
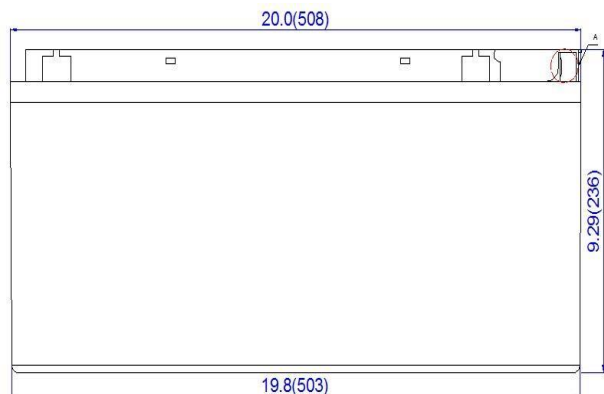
額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	100AH/10Hr/10.8V	端子 Terminal: 螺栓 (M6 Bolt)
尺寸 Dimension	長度 Length	508±1mm(20.0in)
	寬度 Width	106±1mm(4.17in)
	高度 Height	236±1mm(9.29in)
	總高度 Total Height	236±1mm(9.29in)
重量 Weight		33.5kg(73.7Pounds)
電槽材質 Container Material	ABS, UL 94V-0 or UL 94-HB 抗酸、抗油、防震 Resist acid, resist oil, resist vibration	氧氣指數 Index of oxygen L.O.I>28%
電解液型式 Type of electrolyte		AGM 不外漏 Non-spillable



特性 Properties

容量 Capacity 25°C(77°F)	10 小時 10HR of 10.2A to 10.8V	102.0AH
	5 小時 5HR of 18.2A to 10.8V	91.0AH
	1 小時 1HR of 68.0A to 10.8V	68.0AH
	0.5 小時 0.5HR of 118.3A to 10.8V	59.0AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C(77°F)	大約 Approx. 4.2mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C(104°F)	105%(10HR to 105AH)
	25°C(77°F)	100%(10HR to 100AH)
	0°C(32°F)	85%(10HR to 85AH)
	-20°C(-4°F)	60%(10HR to 65AH)
自我放電 Self-discharge	180 天後容量耗損不到 15%，可以在 20°C (68°F) 下保存 8 個月；使用前需要完全充電。 Less than 15% after 180 days, it can be stored at 20°C (68°F) for 8 months; it needs to be fully charged before use.	
最大放電電流 5 秒 Maximum Discharge Current at 5 Sec		650A(6.5CA)
浮充 Float Charging	電壓 Voltage	13.65±0.15V 25°C(77°F)
	電流 Current	30.0A(0.3CA)
循環充電 Cyclic Charging	電壓 Voltage	14.70±0.30V 25°C(77°F)
	電流 Current	25.0A(0.25CA)
操作溫度 Operation Temperature Range	充電 Charge/放置 Storage:-15~40°C(5~104°F)，放電 Discharge:-20~50°C(-4~122°F)	
期待壽命 Expected Life	25°C(77°F) 10 years	

尺寸 Dimension: inch (mm)



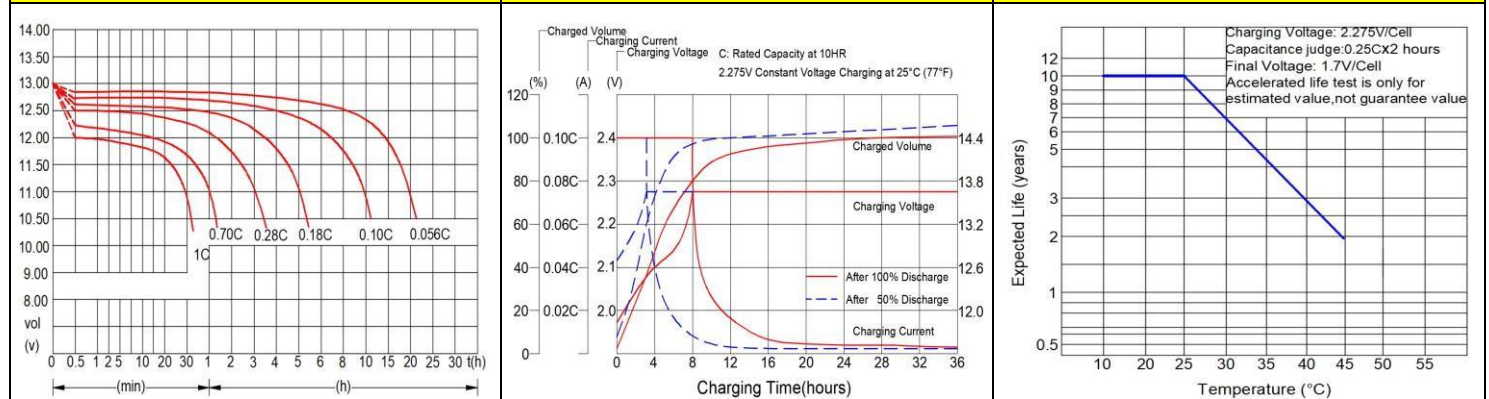
PL100-12FLHLM-CBB PROPERTIES

Amperes and watts per battery at 25°C (77°F)

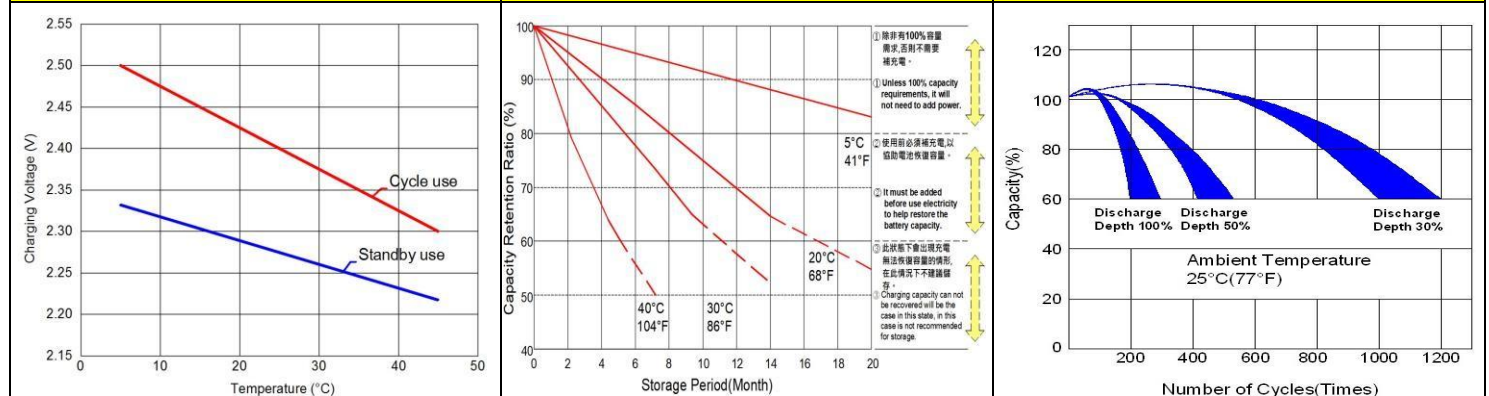
F.V.	Time	Minutes								Hours						
	Item	10	15	20	25	30	35	40	45	1	2	3	4	5	8	10
1.60 (9.60)	A	302.6	226.0	188.2	159.1	131.9	115.4	107.7	98.0	74.7	46.2	34.4	24.9	20.6	13.4	11.8
	W	3178	2486	2070	1829	1517	1327	1238	1127	859	540	403	291	247	161	141
1.65 (9.90)	A	292.0	220.2	184.3	156.4	130.0	109.6	100.9	92.2	72.8	45.6	31.9	24.4	20.3	13.1	11.5
	W	3066	2422	2027	1798	1495	1261	1160	1060	837	533	374	285	243	157	139
1.70 (10.20)	A	287.1	215.3	180.4	153.7	128.0	104.8	95.1	90.2	70.8	44.4	31.2	23.5	19.9	12.8	10.8
	W	3015	2369	1985	1768	1472	1205	1093	1037	814	520	365	274	238	154	130
1.75 (10.50)	A	272.6	205.6	173.6	147.9	125.1	100.9	92.2	85.4	69.8	42.1	29.2	22.3	18.7	12.6	10.4
	W	2862	2262	1910	1701	1439	1160	1060	982	803	493	342	261	225	151	125
1.80 (10.80)	A	244.4	191.1	162.0	139.7	118.3	96.0	88.3	83.4	68.0	40.5	28.9	21.8	18.2	12.2	10.2
	W	2567	2102	1782	1606	1361	1104	1015	959	782	473	338	255	218	146	122
1.83 (10.98)	A	216.3	163.0	134.8	119.3	102.8	83.4	74.7	71.8	65.0	39.8	27.4	20.7	17.1	11.9	9.5
	W	2271	1793	1483	1372	1182	959	859	825	748	466	320	242	205	142	114

用途 Application	密封結構 Seal construction	穩定性 Stabilities
☆通信系統 Communication back-up systems ☆UPS 交換式直流供電設備 UPS switched dc-powered devices ☆無人機房之電源設備 UAV room for power supplies	☆沒有漏電的危險，氣體釋放率超低，不需加水，能防止電解液乾枯或產生層化現象(於放電時)再組合率大於98% Non-spillable, no leaking danger, the gas consumption rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is higher than 98% ☆端子採用合金銅鍍錫材質 Terminals are tin-plated copper alloy material.	☆正負極板是鉛鈣合金 Positive, negative's plates are all Calcium-Lead alloy. ☆塑殼是防火ABS 或等級是 UL 94V-0 L.O.I>28% The plastic material is fire-resistance ABS or same grade of UL 94V-0 L.O.I>28% ☆組立用螺絲採用 M6 螺絲，扭力從 5N-m 至 8N-m(最大)採用不銹鋼材質，堅固耐用。 Assembling screws using M6 screws, torque from 5N-m to 8N-m (maximum) made of stainless steel, durable.

放電特性(25°C) Discharge characteristic at different rates(25°C)	定電壓充電(25°C) Charging Characteristics	壽命與溫度關係 Ccelerated Life Characteristic
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溫度與充電電壓關係 Relationship Between Temperature And Charging Voltage	容量保持特性 Capacity Retention Characteristics	壽命循環關係 Cycle Service Life
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