

# 閥調式鉛酸蓄電池(VRLA)

## PL100-12FLHLM (12V100AH)

### 規格 Type

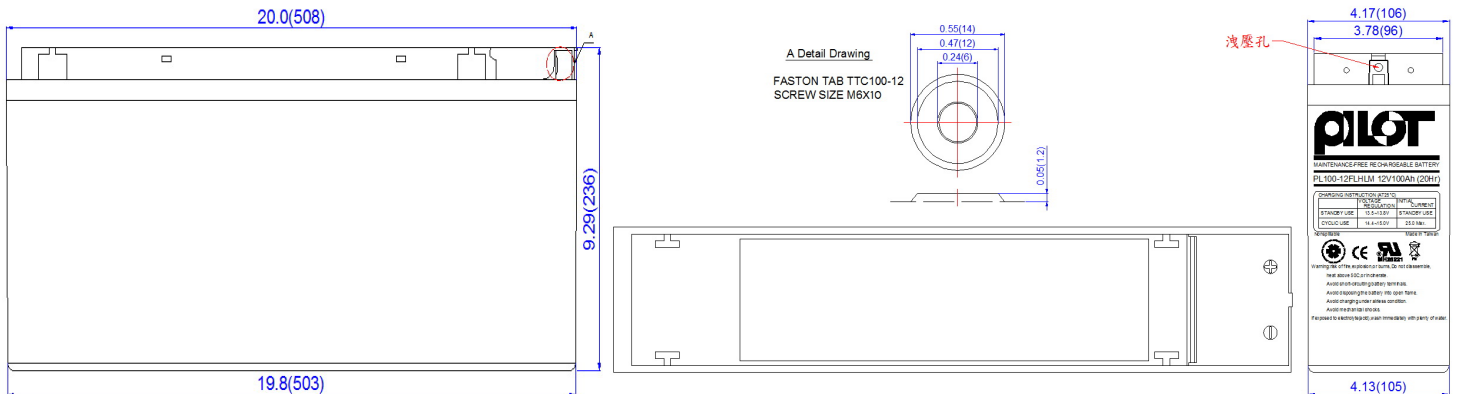
額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	100AH/10Hr/10.8V	端子 Terminal: 螺栓(M6 Bolt)
尺寸 Dimension	長度 Length	508±1mm(20.0in)
	寬度 Width	106±1mm(4.17in)
	高度 Height	236±1mm(9.29in)
	總高度 Total Height	236±1mm(9.29in)
重量 Weight		33kg(72.6Pounds)
電槽材質 Container Material	ABS, UL 94V-0 or UL 94-HB 抗酸、抗油、防震 Resist 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 小時率 10HR of 10.0A to 10.8V	100.0AH
	5 小時率 5HR of 18.1A to 10.8V	90.5AH
	1 小時率 1HR of 66.2A to 10.8V	66.2AH
	0.5 小時率 0.5HR of 116.0A to 10.8V	58.0AH
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) 8~10 years	

### 尺寸 Dimension: inch (mm)



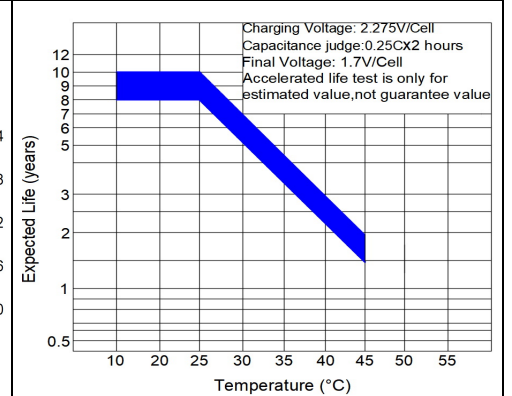
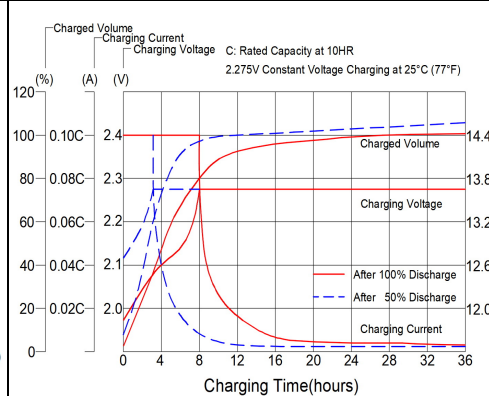
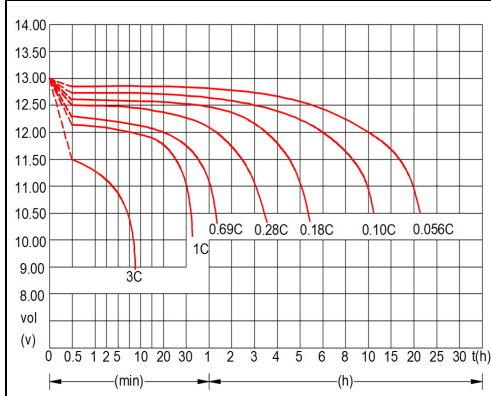
# PL100-12FLHLM PROPERTIES

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

F.V.	Time	Minutes									Hours						
		Item	5	10	15	20	25	30	35	40	45	1	2	3	4	5	8
1.60 (9.60)	A	394	296	221	184	156	129	113	105	96	73.9	45.7	33.1	24.4	19.8	12.9	11.3
	W	4140	3112	2435	2027	1792	1486	1300	1213	1103	850	535	387	285	238	155	136
1.65 (9.90)	A	387	286	216	181	153	127	107	99	90	72.0	45.1	30.7	23.9	19.5	12.6	11.1
	W	4060	3002	2372	1986	1761	1464	1235	1136	1038	828	527	359	280	234	151	133
1.70 (10.20)	A	380	281	211	177	151	125	103	93	88	70.1	43.9	30.0	23.0	19.1	12.3	10.4
	W	3990	2953	2320	1944	1732	1442	1180	1071	1016	806	514	351	269	229	148	125
1.75 (10.50)	A	352	267	201	170	145	123	99	90	84	69.1	41.7	28.1	21.9	18.0	12.1	10.2
	W	3691	2803	2215	1871	1666	1409	1136	1038	961	795	488	329	256	216	145	120
1.80 (10.80)	A	314	239	187	159	137	116	94	86	82	66.2	40.0	27.8	21.4	17.5	11.7	10.0
	W	3292	2514	2059	1745	1573	1333	1082	994	940	762	468	325	250	210	140	118
1.83 (10.98)	A	285	212	160	132	117	101	82	73	70	63.4	39.4	26.3	20.3	16.4	11.4	9.1
	W	2993	2224	1756	1453	1344	1158	940	841	808	729	461	308	238	197	137	109

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	☆沒有漏酸的危險，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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