

閥調式鉛酸蓄電池(VRLA)

PL90-12 (12V90AH)

規格 Type

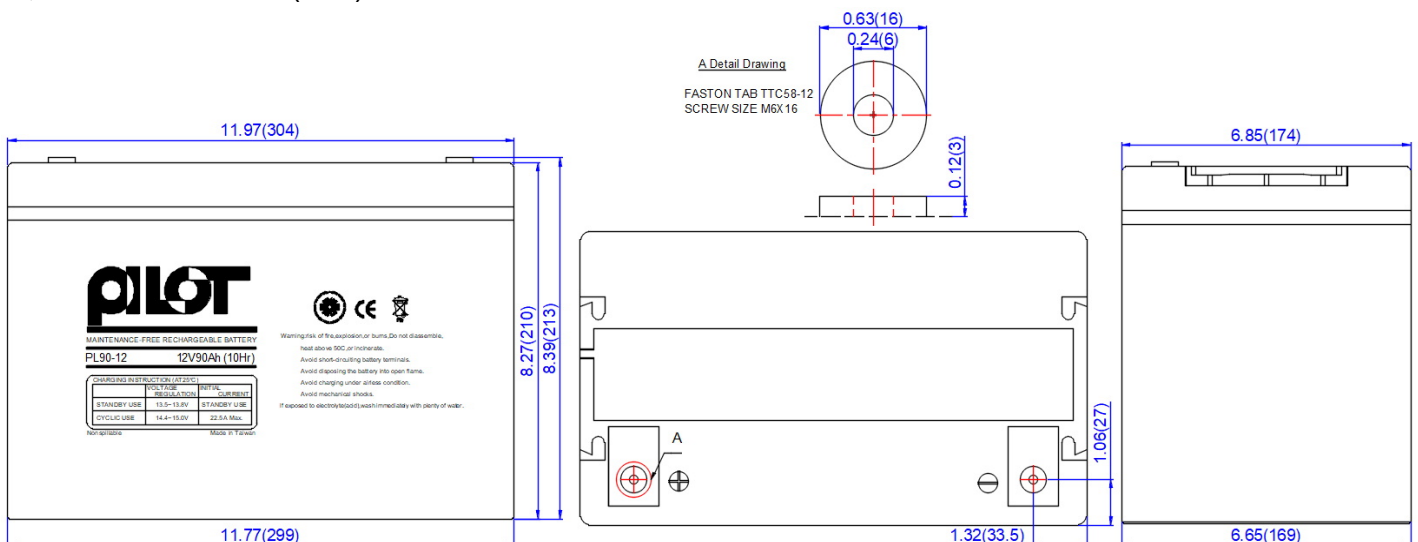
額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	90AH/10Hr/10.5V	端子 Terminal: 螺栓(M6 Bolt)
尺寸 Dimension	長度 Length	304±1mm(11.97in)
	寬度 Width	174±1mm(6.85in)
	高度 Height	210±1mm(8.27in)
	總高度 Total Height	213±1mm(8.39in)
重量 Weight	27.5kg(60.5Pounds)	
電槽材質 Container Material	ABS, UL 94V-0 or UL 94-HB 抗酸、抗油、防震 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 9.0A to 10.5V	90.0AH
	5 小時率 5HR of 16.2A to 10.5V	81.0AH
	1 小時率 1HR of 64.8A to 10.5V	64.8AH
	0.5 小時率 0.5HR of 112.1A to 10.5V	56.0AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C(77°F)	大約 Approx.4.5mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C(104°F)	105%(10HR to 94.5AH)
	25°C(77°F)	100%(10HR to 90.0AH)
	0°C(32°F)	85%(10HR to 76.5AH)
	-20°C(-4°F)	60%(10HR to 54.0AH)
自我放電 Self-discharge	180 天後不到 20%，可以在 20°C (68°F) 下保存 6 個月；使用前需要完全充電。 Less than 20% after 180 days, it can be stored at 20°C (68°F) for 6 months; it needs to be fully charged before use.	
最大放電電流 5 秒 Maximum Discharge Current at 5 Sec	585A(6.5CA)	
浮充 Float Charging	電壓 Voltage	13.65±0.15V 25°C(77°F)
	電流 Current	27.0A(0.3CA)
循環充電 Cyclic Charging	電壓 Voltage	14.70±0.30V 25°C(77°F)
	電流 Current	22.5A(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) 6~8 years	

尺寸 Dimension: inch (mm)



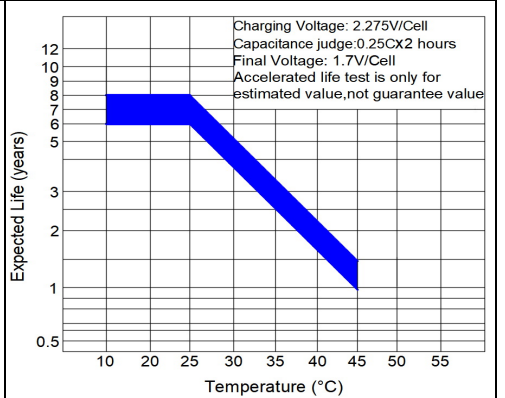
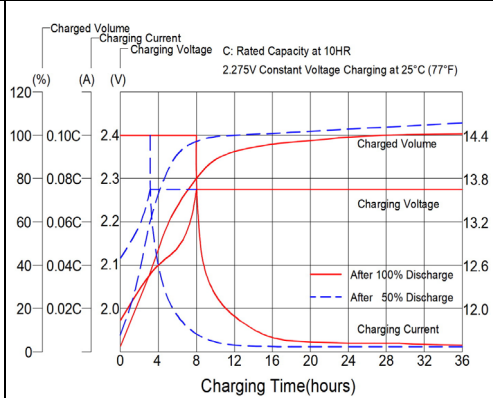
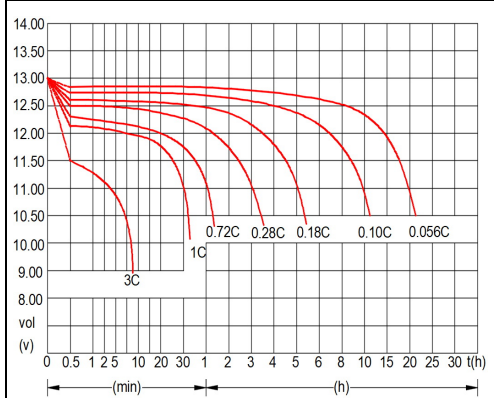
PL90-12 PROPERTIES

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

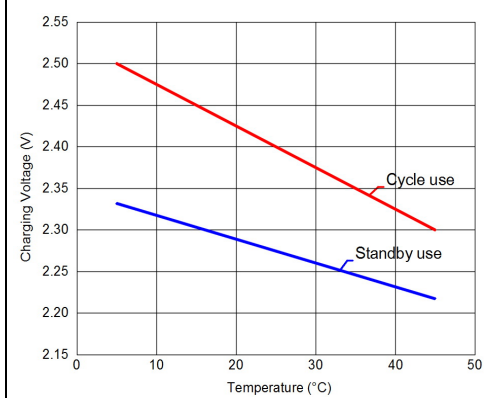
F.V.	Time	Minutes										Hours							
	Item	1	5	10	15	20	25	30	35	40	45	1	2	3	4	5	8	10	20
1.60 (9.60)	A	475	301.5	222.3	180.0	158.4	132.3	127.5	107.1	99.9	90.9	69.3	40.0	28.0	22.0	17.8	11.6	10.2	5.6
	W	4990	3166	2334	1980	1742	1521	1466	1232	1149	1045	797	468	327	257	214	139	122	67
1.65 (9.90)	A	418.5	276.3	205.2	169.2	147.6	125.1	119.8	101.7	93.6	85.5	67.5	39.4	27.6	21.5	17.6	11.3	10.0	5.5
	W	4394	2901	2155	1861	1624	1439	1378	1170	1076	983	776	461	323	252	211	136	120	66
1.70 (10.20)	A	378.9	265.5	198.9	159.3	138.6	119.7	115.0	97.2	88.2	83.7	65.7	38.4	27.0	20.7	17.2	11.2	9.4	5.2
	W	3978	2788	2088	1752	1525	1377	1322	1118	1014	963	756	450	316	242	206	133	112	63
1.75 (10.50)	A	332.1	251.1	174.6	148.5	131.4	114.3	112.1	93.6	85.5	79.2	64.8	36.5	25.3	19.7	16.2	11.0	9.0	5.0
	W	3487	2637	1833	1634	1445	1314	1289	1076	983	911	745	426	296	231	194	131	108	60
1.80 (10.80)	A	294.3	227.7	158.4	135.9	120.6	108.9	104.3	89.1	81.9	77.4	62.1	35.0	25.0	19.3	15.8	10.5	8.8	4.9
	W	3090	2391	1663	1495	1327	1252	1200	1025	942	890	714	410	293	225	189	126	106	58
1.83 (10.98)	A	274.5	209.7	125.1	116.1	100.8	92.7	92.7	77.4	69.3	66.6	59.4	34.5	23.7	18.3	14.8	10.3	8.2	4.6
	W	2882	2202	1314	1277	1109	1066	1066	890	797	766	683	403	277	214	177	123	98	55

用途 Application	密封結構 Seal construction	穩定性 Stabilities
<ul style="list-style-type: none"> ☆廣播電視系統 Broadcast television systems ☆UPS 緊急備用電源 UPS emergency backup power ☆通信系統 Communication back-up systems ☆電力系統 Power systems ☆緊急照明器材 Emergency lighting equipment ☆防火、保全系統 Fire, security systems 	<ul style="list-style-type: none"> ☆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. 	<ul style="list-style-type: none"> ☆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.

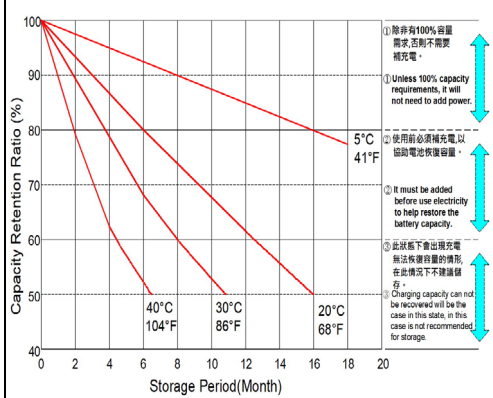
放電特性(25°C) Discharge characteristic at different rates(25°C)	定電壓充電(25°C) Charging Characteristics	浮充期待壽命 Float Service Life
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溫度與充電電壓關係 Relationship Between Temperature And Charging Voltage



容量保持特性 Capacity Retention Characteristics



壽命循環關係 Cycle Service Life

