

# 閥調式鉛酸蓄電池(VRLA)

## PL14-12 (12V14AH)

### 規格 Type

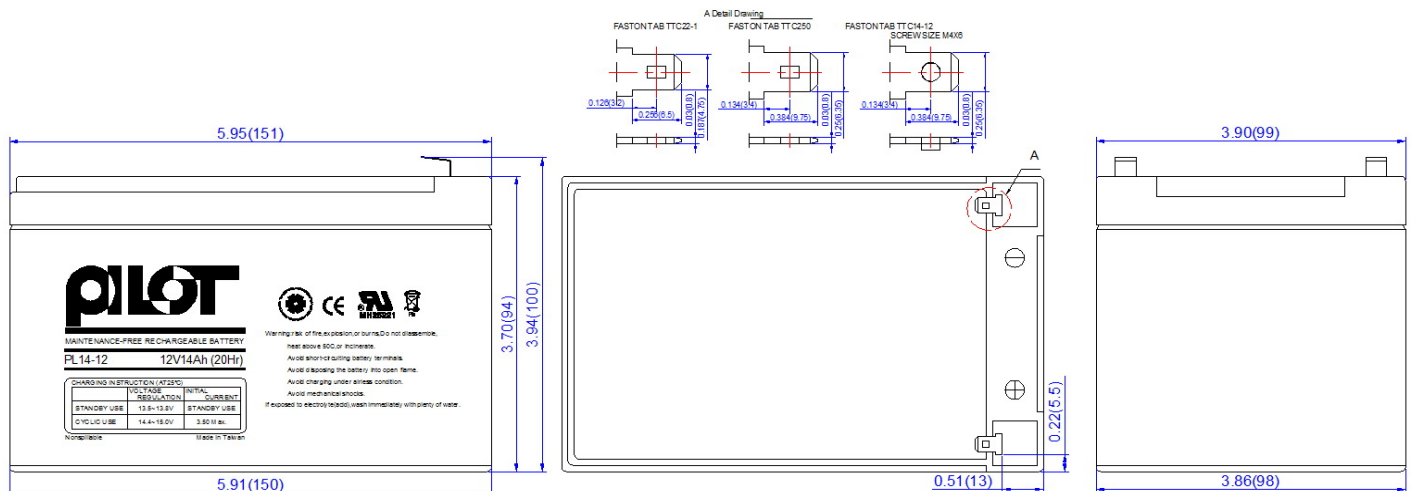
額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	14.0AH/20Hr/10.5V	
尺寸 Dimension	長度 Length	151±1mm(5.95in)
	寬度 Width	99±1mm(3.90in)
	高度 Height	94±1mm(3.70in)
	總高度 Total Height	100±1mm(3.94in)
重量 Weight	3.75kg(8.25Pounds)	
電槽材質 Container Material	ABS,UL 94V-0 or UL 94-HB 抗酸、抗油、防震 Resist acid, resist oil, resist 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)	20 小時率 20HR of 0.70A to 10.5V	14.0AH
	5 小時率 5HR of 2.27A to 10.5V	11.3AH
	1 小時率 1HR of 9.10A to 10.5V	9.1AH
	0.5 小時率 0.5HR of 14.60A to 10.5V	7.3AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C(77°F)	大約 Approx.15.0mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C(104°F)	105%(20HR to 14.7AH)
	25°C(77°F)	100%(20HR to 14.0AH)
	0°C(32°F)	85%(20HR to 11.9AH)
	-20°C(-4°F)	60%(20HR to 8.4AH)
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	210.0A(15CA)	
浮充 Float Charging	電壓 Voltage	13.65±0.15V 25°C(77°F)
	電流 Current	4.20A(0.3CA)
循環充電 Cyclic Charging	電壓 Voltage	14.70±0.30V 25°C(77°F)
	電流 Current	3.50A(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) 3~5 years	

### 尺寸 Dimension: inch (mm)



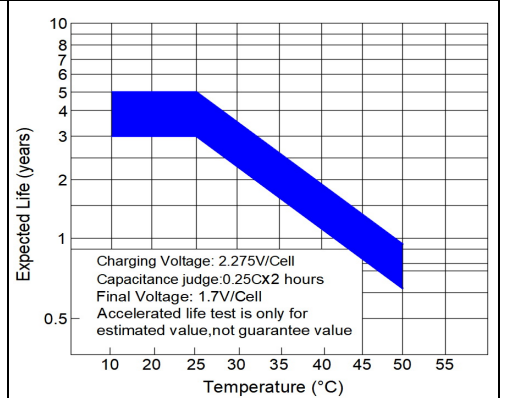
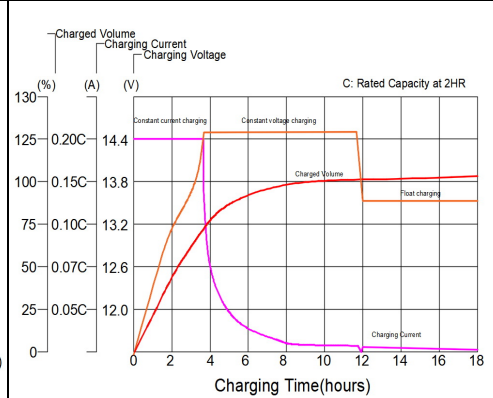
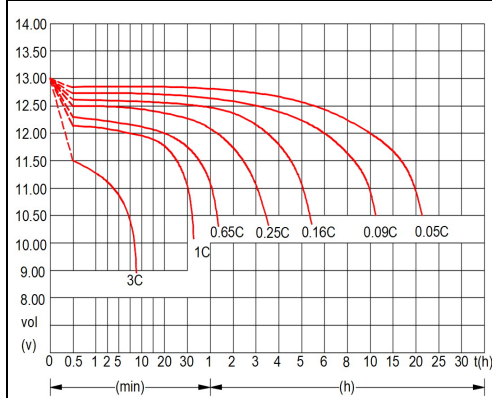
# PL14-12 PROPERTIES

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	66.64	42.28	31.22	25.34	22.26	18.62	16.66	15.12	14.00	12.74	9.80	5.60	3.92	3.08	2.49	1.63	1.43	0.78
	W	699.7	443.9	327.8	278.7	244.9	214.1	191.6	173.9	161.0	146.5	112.7	65.52	45.86	36.04	29.90	19.53	17.14	9.41
1.65 (9.90)	A	58.66	38.78	28.84	23.80	20.72	17.64	15.68	14.28	13.16	12.04	9.52	5.53	3.87	3.01	2.46	1.59	1.40	0.77
	W	615.9	407.2	302.8	261.8	227.9	202.9	180.3	164.2	151.3	138.5	109.5	64.70	45.32	35.22	29.57	19.11	16.80	9.24
1.70 (10.20)	A	53.20	37.24	26.74	22.40	19.46	16.80	15.12	13.72	12.46	11.76	9.24	5.39	3.78	2.91	2.41	1.56	1.32	0.73
	W	558.6	391.0	280.8	246.4	214.1	193.2	173.9	157.8	143.3	135.2	106.3	63.06	44.23	33.99	28.90	18.69	15.79	8.74
1.75 (10.50)	A	46.62	35.28	24.50	20.86	18.48	16.10	14.70	13.16	12.04	11.20	9.10	5.11	3.55	2.77	2.27	1.52	1.26	0.70
	W	489.5	370.4	257.3	229.5	203.3	185.2	169.1	151.3	138.5	128.8	104.7	59.79	41.50	32.35	27.22	18.27	15.12	8.40
1.80 (10.80)	A	41.30	31.92	22.26	19.04	16.94	15.26	13.72	12.60	11.48	10.92	8.82	4.90	3.50	2.70	2.21	1.47	1.23	0.69
	W	433.7	335.2	233.7	209.4	186.3	175.5	157.8	144.9	132.0	125.6	101.4	57.33	40.95	31.53	26.54	17.64	14.78	8.23
1.83 (10.98)	A	38.50	29.40	17.64	16.38	14.14	13.02	12.18	10.92	9.80	9.38	8.40	4.83	3.31	2.56	2.07	1.44	1.15	0.64
	W	404.3	308.7	185.2	180.2	155.5	149.7	140.1	125.6	112.7	107.9	96.60	56.51	38.77	29.89	24.86	17.22	13.78	7.73

用途 Application	密封結構 Seal construction	穩定性 Stabilities
☆電動代步車 Electric scooter ☆電動機車 Motor vehicles ☆電動腳踏車 Electric bicycle ☆各種電動玩具 All kinds of electric toys	☆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%

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
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