

# 閥調式鉛酸蓄電池(VRLA)

## PL4.5-12 (12V4.5AH)

### 規格 Type

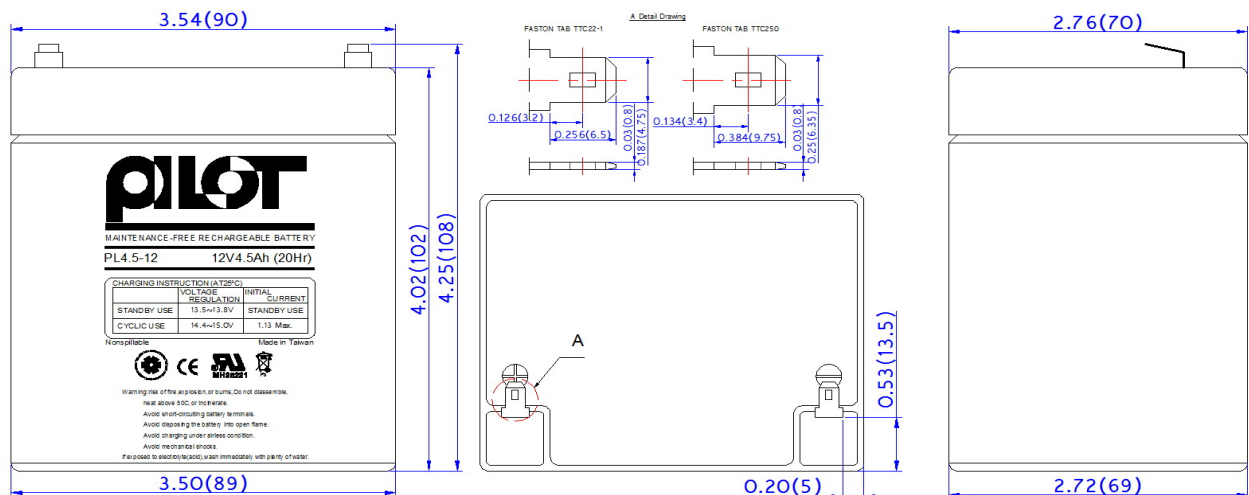
額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	4.5AH/20Hr/10.5V	
尺寸 Dimension	長度 Length	90±1mm(3.54in)
	寬度 Width	70±1mm(2.76in)
	高度 Height	102±1mm(4.02in)
	總高度 Total Height	108±1mm(4.25in)
重量 Weight	1.53kg(3.366Pounds)	
電槽材質 Container Material	ABS,UL 94V-0 or UL 94-HB 抗酸、抗油、防震 Resist acid, resist oil, resist 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 0.225A to 10.5V	4.50AH
	5 小時率 5HR of 0.73A to 10.5V	3.65AH
	1 小時率 1HR of 2.93A to 10.5V	2.93AH
	0.5 小時率 0.5HR of 4.73A to 10.5V	2.37AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C(77°F)	大約 Approx.40.0mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C(104°F)	105%(20HR to 4.73AH)
	25°C(77°F)	100%(20HR to 4.50AH)
	0°C(32°F)	85%(20HR to 3.83AH)
	-20°C(-4°F)	60%(20HR to 2.70AH)
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	67.5A(15CA)	
浮充 Float Charging	電壓 Voltage	13.65±0.15V 25°C(77°F)
	電流 Current	1.35A(0.3CA)
循環充電 Cyclic Charging	電壓 Voltage	14.70±0.30V 25°C(77°F)
	電流 Current	1.13A(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)



# PL4.5-12 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	21.42	13.59	10.04	8.15	7.16	5.99	5.36	4.86	4.50	4.10	3.15	1.80	1.26	0.99	0.80	0.52	0.46	0.25
	W	225	143	105	90	79	69	62	56	52	47	36.2	21.1	14.7	11.6	9.6	6.3	5.5	3.0
1.65 (9.90)	A	18.86	12.47	9.27	7.65	6.66	5.67	5.04	4.59	4.23	3.87	3.06	1.78	1.25	0.97	0.79	0.51	0.45	0.25
	W	198	131	97	84	73	65	58	53	49	45	35.2	20.8	14.6	11.3	9.5	6.1	5.4	3.0
1.70 (10.20)	A	17.10	11.97	8.60	7.20	6.26	5.40	4.86	4.41	4.01	3.78	2.97	1.73	1.22	0.93	0.77	0.50	0.42	0.23
	W	180	126	90	79	69	62	56	51	46	43	34.2	20.3	14.2	10.9	9.3	6.0	5.1	2.8
1.75 (10.50)	A	14.99	11.34	7.88	6.71	5.94	5.18	4.73	4.23	3.87	3.60	2.93	1.64	1.14	0.89	0.73	0.49	0.41	0.225
	W	157	119	83	74	65	60	54	49	45	41	33.6	19.2	13.3	10.4	8.7	5.9	4.9	2.7
1.80 (10.80)	A	13.28	10.26	7.16	6.12	5.45	4.91	4.41	4.05	3.69	3.51	2.84	1.58	1.13	0.87	0.71	0.47	0.40	0.22
	W	139	108	75	67	60	56	51	47	42	40	32.6	18.4	13.2	10.1	8.5	5.7	4.8	2.6
1.83 (10.98)	A	12.38	9.45	5.67	5.27	4.55	4.19	3.92	3.51	3.15	3.02	2.70	1.55	1.07	0.82	0.67	0.46	0.37	0.21
	W	130	99	60	58	50	48	45	40	36	35	31.1	18.2	12.5	9.6	8.0	5.5	4.4	2.5

用途 Application	密封結構 Seal construction	穩定性 Stabilities
<ul style="list-style-type: none"> <li>☆廣播電視系統 Broadcast television systems</li> <li>☆UPS 緊急備用電源 UPS emergency backup power</li> <li>☆通信系統 Communication back-up systems</li> <li>☆電力系統 Power systems</li> <li>☆緊急照明器材 Emergency lighting equipment</li> <li>☆防火、保全系統 Fire, security systems</li> </ul>	<ul style="list-style-type: none"> <li>☆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%</li> <li>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%</li> <li>☆端子採用合金銅鍍錫材質 Terminals are tin-plated copper alloy material.</li> </ul>	<ul style="list-style-type: none"> <li>☆正負極板是鉛鈣合金 Positive, negative's plates are all Calcium-Lead alloy.</li> <li>☆塑殼是防火 ABS 或等級是 UL 94V-0 L.O.I&gt;28%</li> <li>The plastic material is fire-resistance ABS or same grade of UL 94V-0 L.O.I &gt;28%</li> </ul>

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

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