



閥調式鉛酸蓄電池(VRLA) PL2.5-12 (12V2.5AH)

規格 Type

額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	2.5AH/20HR	
尺寸 Dimension	長度 Length	178±1mm(7.00in)
	寬度 Width	35±1mm(1.38in)
	高度 Height	61±1mm(2.40in)
	總高度 Total Height	67±1mm(2.64in)
重量 Weight	0.98kg(2.09Pounds)	
電槽材質 Container Material	ABS,UL 94V-0 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	

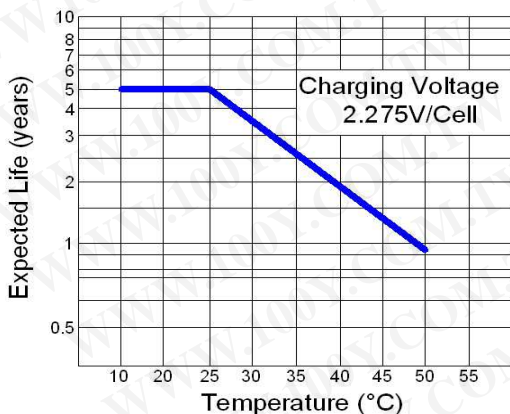


特性 Properties

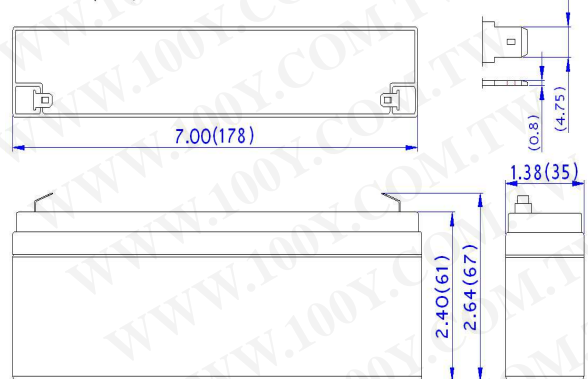
容量 Capacity 25°C (77°F)	20 小時率 20HR of 0.125A to 10.5V	2.50AH
	5 小時率 5HR of 0.405A to 10.5V	2.03AH
	1 小時率 1HR of 1.625A to 10.5V	1.63AH
	0.5 小時率 0.5HR of 2.630A to 10.5V	1.32AH
內阻 Internal Resistance	完全充電 Full Charge 25°C (77°F)	大約 Approx.35mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C (104°F)	105%(20HR to 2.63AH)
	25°C (77°F)	100%(20HR to 2.50AH)
	0°C (32°F)	85%(20HR to 2.13AH)
	-20°C (-4°F)	60%(20HR to 1.50AH)
自我放電 Self-discharge 25°C (77°F)	1 個月 尚有 97% 1 months, 97% left	6 個月 尚有 85% 6 months, 85% left
	3 個月 尚有 91% 3 months, 91% left	12 個月 尚有 64% 12 months, 64% left
最大放電電流 Max Discharge Current	25.0A(10CA)	
最大短路電流 Max Short Duration Discharge Current	37.5A(15CA)	
浮充 Float Charging	電壓 Voltage	13.65±0.15V 25°C (77°F)
	電流 Current	0.75A(0.3CA)
循環充電 Cyclic Charging	電壓 Voltage	14.70±0.30V 25°C (77°F)
	電流 Current	0.63A(0.3CA)
操作溫度 Operation Temperature Range	充電 Charge:-10~40°C (14~104°F) · 放電 Discharge:-20~50°C (-4~122°F)	
期待壽命 Expected Life	25°C (77°F)5years	

壽命與溫度關係

ACCELERATED LIFE CHARACTERISTIC



Unit:inch(mm)



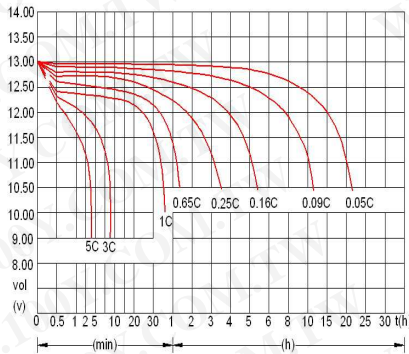
PL2.5 -12 PROPERTIES

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	11.90	7.55	5.58	4.53	3.98	3.33	2.98	2.70	2.50	2.28	1.750	1.000	0.700	0.550	0.445	0.291	0.255	0.140
	W	125.0	79.28	58.54	49.78	43.73	38.24	34.21	31.05	28.75	26.16	20.13	11.70	8.19	6.44	5.34	3.49	3.06	1.68
1.65 (9.90)	A	10.48	6.93	5.15	4.25	3.70	3.15	2.80	2.55	2.35	2.15	1.700	0.988	0.692	0.538	0.440	0.284	0.250	0.138
	W	110.0	72.71	54.08	46.75	40.70	36.23	32.20	29.33	27.03	24.73	19.55	11.55	8.09	6.29	5.28	3.41	3.00	1.65
1.70 (10.20)	A	9.50	6.65	4.78	4.00	3.48	3.00	2.70	2.45	2.23	2.10	1.650	0.963	0.675	0.519	0.430	0.278	0.235	0.130
	W	99.8	69.83	50.14	44.00	38.23	34.50	31.05	28.18	25.59	24.15	18.98	11.26	7.90	6.07	5.16	3.34	2.82	1.56
1.75 (10.50)	A	8.33	6.30	4.38	3.73	3.30	2.88	2.63	2.35	2.15	2.00	1.625	0.913	0.633	0.494	0.405	0.272	0.225	0.125
	W	87.4	66.15	45.94	40.98	36.30	33.06	30.19	27.03	24.73	23.00	18.69	10.68	7.41	5.78	4.86	3.26	2.70	1.50
1.80 (10.80)	A	7.38	5.70	3.98	3.40	3.03	2.73	2.45	2.25	2.05	1.95	1.575	0.875	0.625	0.481	0.395	0.263	0.220	0.123
	W	77.44	59.85	41.74	37.40	33.28	31.34	28.18	25.88	23.58	22.43	18.11	10.24	7.31	5.63	4.74	3.15	2.64	1.47
1.83 (10.98)	A	6.88	5.25	3.15	2.93	2.53	2.33	2.18	1.95	1.75	1.68	1.500	0.863	0.592	0.456	0.370	0.256	0.205	0.115
	W	72.19	55.13	33.08	32.18	27.78	26.74	25.01	22.43	20.13	19.26	17.25	10.09	6.92	5.34	4.44	3.08	2.46	1.38

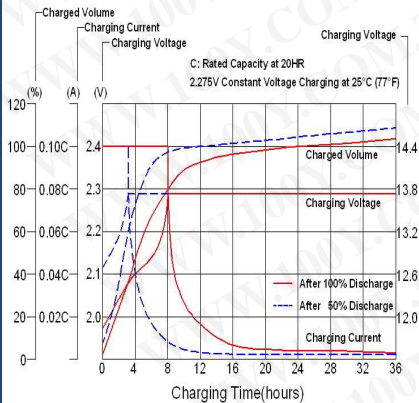
放電特性(25°C)

Discharge characteristic at different rates(25°C)



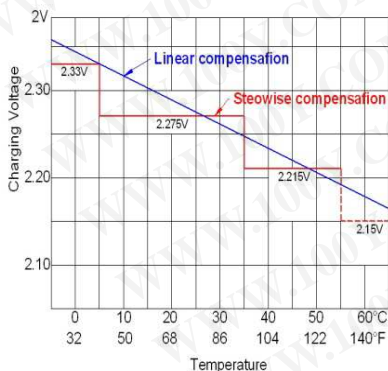
定電壓充電(25°C)

CHARGING CHARACTERISTICS



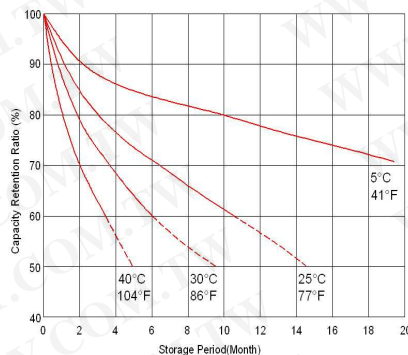
溫度與充電電壓關係

Relationship Between Temperature and Charging Voltage



容量保持性與溫度關係

Capacity Retention Characteristic



用途 Application:

- ☆廣播電視系統
Broadcast television systems
- ☆電信和 UPS 系統
Telecom and UPS systems
- ☆通信系統
Communication back-up systems
- ☆太陽能儲備系統
Solar storage power systems
- ☆電力系統
Power systems
- ☆電動堆高機、牽引車
Forklift, elevator systems

穩定性 Stabilities:

- ☆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%

極柱 Polarities:

- ☆極柱採用鉛錫合金或合金銅鍍鉛材質
The polarities adopted Antimony-Lead alloy or copper alloy covered with Lead material.

密閉結構 Seal construction:

- ☆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 escape rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is high than 98%
- ☆電解液被玻璃纖維棉吸附比重:1.295(25°C)AGM
The electrolyte can be absorbed by separator, the gravity of acid:1.295(25°C)AGM