



PILOT ENERGY
百樂千那能源股份有限公司

閥調式碳鉛蓄電池(VRLA)

Valve regulated carbon lead battery(VRLA)

PMU2250-CBB (2V250AH)



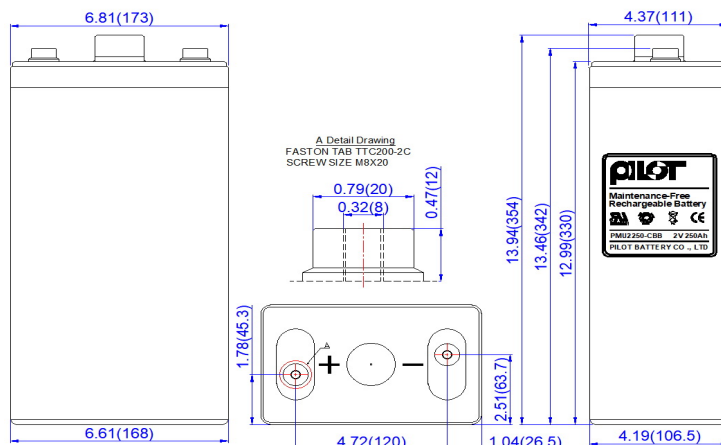
規格Specification

額定電壓 Rated Voltage	2V	
額定容量 Rated Capacity	250AH/10Hr/1.8V	端子 Terminal: 螺栓(M8 Bolt)
尺寸 Dimension	長度 Length	173±1mm(6.81in)
	寬度 Width	111±1mm(4.37in)
	高度 Height	330±1mm(12.99in)
	總高度 Total Height	363±1mm(14.29in)
重量 Weight	14.3kg(31.46Pounds)	
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	25.0A to 1.80V	250.0AH
	5 小時率 5HR of	42.5A to 1.80V	212.5AH
	1 小時率 1HR of	132.5A to 1.80V	132.5AH
	0.5 小時率 0.5HR of	195.0A to 1.80V	97.5AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C (77°F)		大約 Approx. 0.58mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C (104°F)		105%(10HR to 263AH)
	25°C (77°F)		100%(10HR to 250AH)
	0°C (32°F)		85%(10HR to 213AH)
	-20°C (-4°F)		60%(10HR to 150AH)
最大放電電流 5 秒 Maximum Discharge Current at 5 Sec			1125.0A(4.5CA)
浮充 Float Charging	電壓 Voltage	2.275±0.025V 25°C (77°F)	
	電流 Current	75.00A(0.3CA)	
循環充電 Cyclic Charging	電壓 Voltage	2.40±0.05V 25°C (77°F)	
	電流 Current	62.50A(0.25CA)	
操作溫度 Operation Temperature Range	充電 Charge/放置 Storage: -15~50°C (5~122°F), 放電 Discharge: -20~50°C (-4~122°F)		
期待壽命 Expected Life	25°C (77°F) 12~15 years		
性能特點 Performance characteristics	<p>擁有超級電容瞬間大容量充電的優點，也發揮了鉛酸電池的比能量優勢，且非常好的充電性能，優異的低溫啟動能力，更長的循環壽命。</p> <p>Has the advantages of instantaneous supercapacitor charging capacity, but also play a lead-acid batteries than the energy advantages, and very good charging performance, excellent low temperature start-up ability, longer cycle life.</p>		

尺寸 Dimension: inch (mm)



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

F.V.	Time Item	Minutes				Hours						
		30	35	40	45	1	2	3	4	5	8	10
1.60	A	269	245	225	200	162.0	96.0	71.5	57.0	47.8	33.8	27.8
	W	479	447	412	368	302	183	137	109	92	65	54
1.65	A	256	230	210	190	157.8	92.5	68.5	55.0	47.3	33.0	27.3
	W	468	423	388	353	296	177	132	106	92	64	53
1.70	A	249	220	203	185	152.0	91.0	67.0	54.5	46.5	32.0	26.5
	W	458	406	378	349	287	174	129	105	90	62	52
1.75	A	216	210	190	175	140.0	88.0	66.3	53.5	45.0	31.3	26.0
	W	400	393	356	329	265	169	128	104	79	61	51
1.80	A	195	188	180	163	132.5	82.0	62.5	51.0	42.5	30.0	25.0
	W	363	351	338	307	253	158	121	99	82	59	49
1.83	A	175	163	150	138	122.0	77.5	58.0	47.0	39.5	27.5	23.5
	W	333	310	289	267	235	151	113	92	78	54	47

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, wind power systems
- ☆電力系統
Power systems
- ☆緊急照明
Emergency lighting

密閉結構 Seal construction

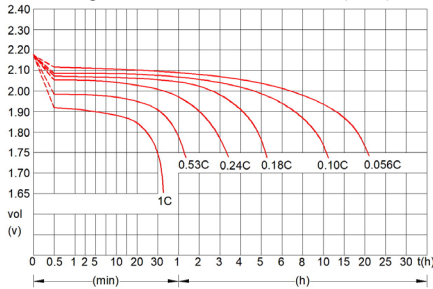
- ☆沒有漏酸的危險，氣體釋放率超底，不需加水，能防止電解液乾枯或產生層化現象(於放電時)再組合率大於 98%
- Non-spillable, no leaking danger, the gas consumption rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is higher than 98%
- ☆極柱採用鉛錫合金或合金銅鍍鉛材質
The polarities adopted Antimony-Lead alloy or copper alloy covered with Lead material.

穩定性 Stabilities

- ☆正負極板是鉛銀合金
Positive and negative plates are lead silver 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 M8 螺絲，扭力從 10N-m 至 12N-m(最大)採用不銹鋼材質，堅固耐用。
Assembling screws using M8 screws, torque from 10N-m to 12N-m (maximum) made of stainless steel, durable.

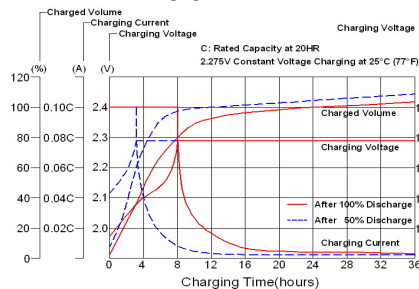
放電特性(25°C)

Discharge characteristic at different rates(25°C)



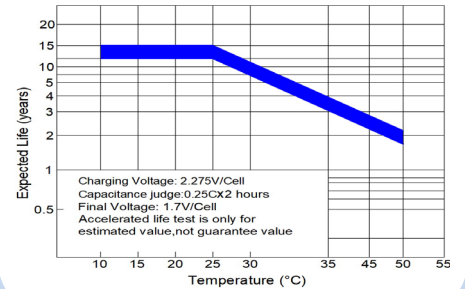
定電壓充電(25°C)

Charging Characteristics



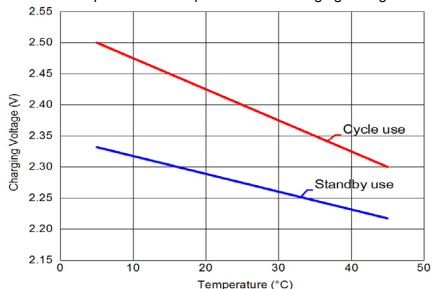
壽命與溫度關係

Accelerated Life Characteristic



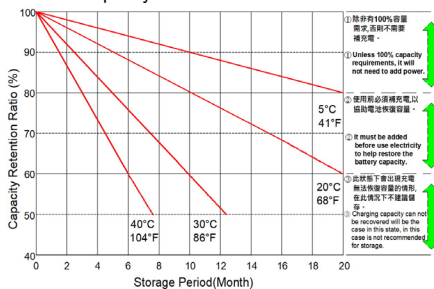
溫度與充電電壓關係

Relationship Between Temperature And Charging Voltage



容量保持特性

Capacity Retention Characteristics



壽命循環關係

Cycle Service Life

