



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)

PMU2300-CBB (2V300AH)



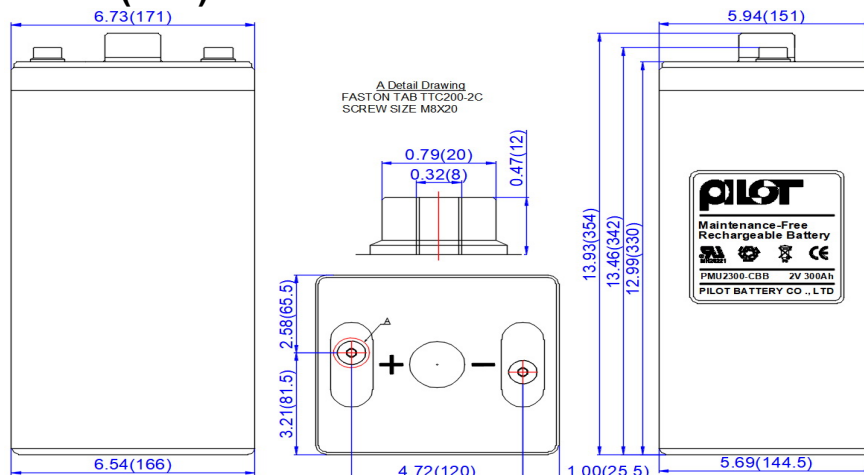
規格Specification

額定電壓 Rated Voltage	2V	
額定容量 Rated Capacity	300AH/10Hr/1.8V	端子 Terminal: 螺栓(M8 Bolt)
尺寸 Dimension	長度 Length	171±1mm(6.73in)
	寬度 Width	151±1mm(5.94in)
	高度 Height	330±1mm(12.99in)
	總高度 Total Height	365±1mm(14.37in)
重量 Weight	19.0kg(41.8Pounds)	
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	30.0A to 1.80V	300.0AH
	5 小時率 5HR of	51.0A to 1.80V	255.0AH
	1 小時率 1HR of	159.0A to 1.80V	159.0AH
	0.5 小時率 0.5HR of	234.0A to 1.80V	117.0AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C (77°F)		大約 Approx. 0.55mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C (104°F)		105%(10HR to 315AH)
	25°C (77°F)		100%(10HR to 300AH)
	0°C (32°F)		85%(10HR to 255AH)
	-20°C (-4°F)		60%(10HR to 180AH)
最大放電電流 5 秒 Maximum Discharge Current at 5 Sec			1350.0A(4.5CA)
浮充 Float Charging	電壓 Voltage	2.275±0.025V 25°C (77°F)	
	電流 Current	90.00A(0.3CA)	
循環充電 Cyclic Charging	電壓 Voltage	2.40±0.05V 25°C (77°F)	
	電流 Current	75.00A(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	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。 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.		

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	323	294	270	240	194.4	115.2	85.8	68.4	57.3	40.5	33.3
	W	575	537	495	442	363	220	164	131	110	78	64
1.65	A	307	276	252	228	189.3	111.0	82.2	66.0	56.7	39.6	32.7
	W	561	507	466	423	356	212	158	127	110	76	64
1.70	A	299	264	243	222	182.4	109.2	80.4	65.4	55.8	38.4	31.8
	W	549	488	454	419	344	209	155	126	108	75	62
1.75	A	259	252	228	210	168.0	105.6	79.5	64.2	54.0	37.5	31.2
	W	480	471	427	395	318	202	154	125	95	73	61
1.80	A	234	225	216	195	159.0	98.4	75.0	61.2	51.0	36.0	30.0
	W	436	421	406	368	303	190	145	119	99	70	59
1.83	A	210	195	180	165	146.4	93.0	69.6	56.4	47.4	33.0	28.2
	W	399	372	346	320	281	181	136	110	93	65	56

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

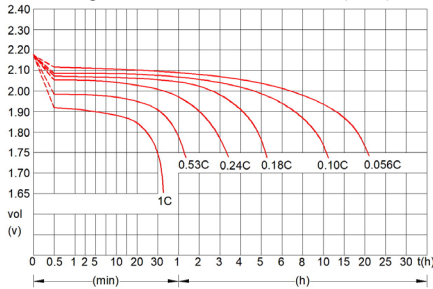
- ☆沒有漏酸的危險，氣體釋放率超底，不需加水，能防止電解液乾枯或產生層化現象(於放電時)再組合率大於 98%
- Non-spillable, no leaking danger, the gas consumption rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is higher than 98%
- ☆極柱採用鉛錫合金或合金銅鍍鉛材質
The polarities adopted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

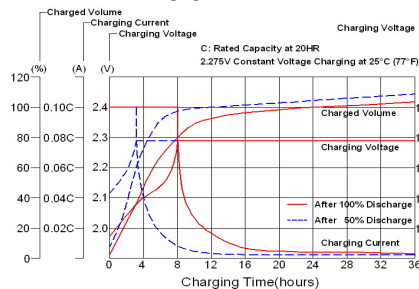
放電特性(25°C)

Discharge characteristic at different rates(25°C)



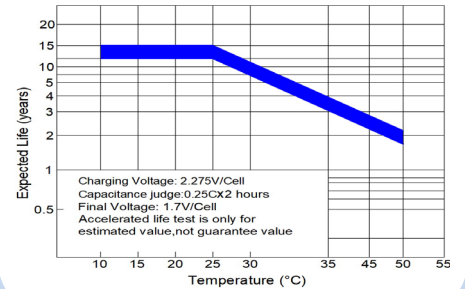
定電壓充電(25°C)

Charging Characteristics



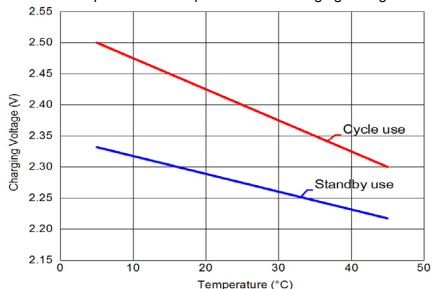
壽命與溫度關係

Accelerated Life Characteristic



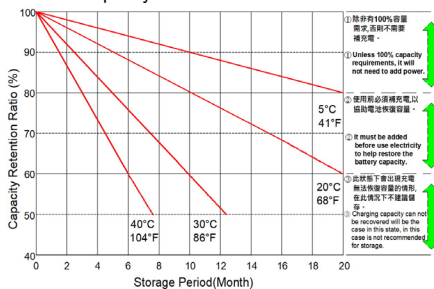
溫度與充電電壓關係

Relationship Between Temperature And Charging Voltage



容量保持特性

Capacity Retention Characteristics



壽命循環關係

Cycle Service Life

