

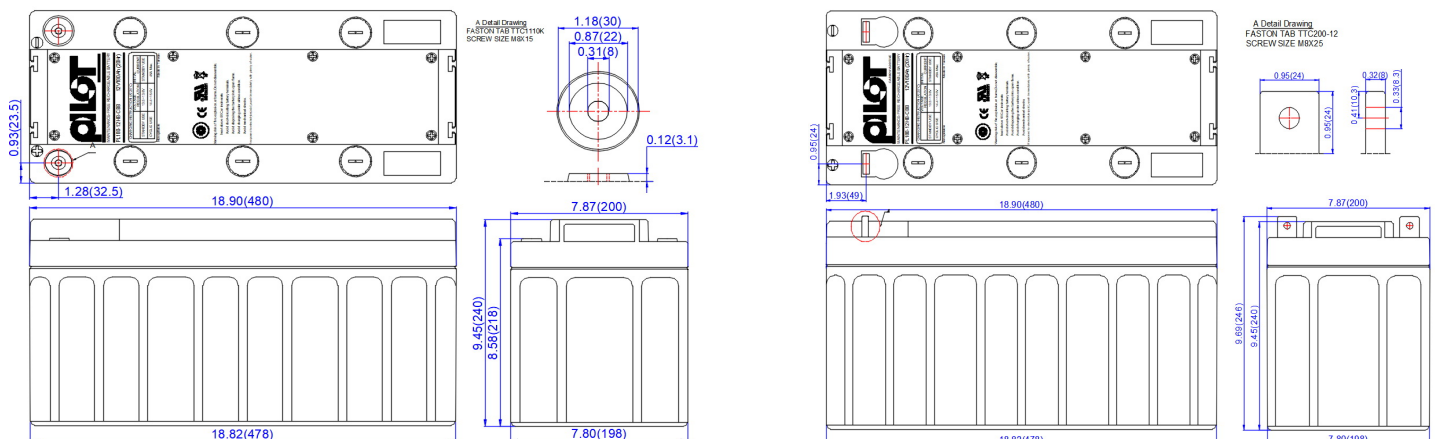
規格Specification

額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	180AH/20Hr/10.5V	端子 Terminal: 螺栓(M8 Bolt)
尺寸 Dimension	長度 Length	480±1mm(18.90in)
	寬度 Width	200±1mm(7.87in)
	高度 Height	240±1mm(9.45in)
	總高度 Total Height	240±1mm(9.45in)
重量 Weight	54.2kg(119.24Pounds)	
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 9.0A to 10.5V	180.0AH
	5 小時率 5HR of 29.2A to 10.5V	146.0AH
	1 小時率 1HR of 117.0A to 10.5V	117.0AH
	0.5 小時率 0.5HR of 189.0A to 10.5V	94.5AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C(77°F)	大約 Approx.3mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C(104°F)	105%(20HR to 189AH)
	25°C(77°F)	100%(20HR to 180AH)
	0°C(32°F)	85%(20HR to 153AH)
	-20°C(-4°F)	60%(20HR to 108AH)
最大放電電流 5 秒 Maximum Discharge Current at 5 Sec		1170.0A(6.5CA)
浮充 Float Charging	電壓 Voltage	13.65±0.15V 25°C(77°F)
	電流 Current	54.00A(0.3CA)
循環充電 Cyclic Charging	電壓 Voltage	14.70±0.30V 25°C(77°F)
	電流 Current	45.00A(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) 10~12 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							
		5	10	15	20	25	30	35	40	45	1	2	3	4	5	8	10	20	
1.60 (9.60)	A	544	401	326	286	239	214	194	180	164	126.0	72.0	50.4	39.6	32.0	20.9	18.4	10.1	
	W	5708	4215	3584	3148	2753	2463	2236	2070	1884	1449	842	590	463	384	251	220	121	
1.65 (9.90)	A	499	371	306	266	227	202	184	169	155	122.4	71.1	49.8	38.7	31.7	20.5	18.0	9.9	
	W	5235	3893	3366	2930	2608	2318	2111	1946	1780	1408	832	583	453	380	246	216	119	
1.70 (10.2)	A	479	344	288	250	216	194	176	160	151	118.8	69.3	48.6	37.4	31.0	20.0	16.9	9.4	
	W	5027	3610	3168	2752	2484	2236	2029	1842	1739	1366	811	569	437	372	240	203	112	
1.75 (10.5)	A	454	315	268	238	207	189	169	155	144	117.0	65.7	45.6	35.6	29.2	19.6	16.2	9.0	
	W	4763	3308	2950	2614	2381	2174	1946	1780	1656	1346	769	534	416	350	235	194	108	
1.80 (10.8)	A	410	286	245	218	196	176	162	148	140	113.4	63.0	45.0	34.7	28.4	18.9	15.8	8.8	
	W	4309	3005	2693	2396	2256	2029	1863	1697	1615	1304	737	527	405	341	227	190	106	
1.83 (10.98)	A	378	227	211	182	167	157	140	126	121	108.0	62.1	42.6	32.9	26.6	18.5	14.8	8.3	
	W	3969	2381	2317	2000	1925	1801	1615	1449	1387	1242	727	498	384	320	221	177	99	

用途 Application

- ☆ UPS 緊急備用電源
UPS emergency backup power
- ☆ 通信系統
Communication back-up systems
- ☆ 電力系統
Power systems
- ☆ 太陽能儲備系統
Solar storage power systems
- ☆ 緊急照明
Emergency lighting
- ☆ 防火、保全系統
Fire, security systems

密閉結構 Seal construction

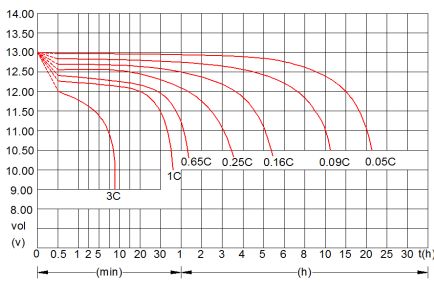
- ☆ 沒有漏酸的危險，氣體釋放率超低，不需加水，能防止電解液乾枯或產生層化現象(於放電時)再組合率大於 98%
- Non-spillable, no leaking danger, the gas consumption rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is higher than 98%
- ☆ 極柱採用鉛錫合金或合金銅鍍鉛材質
The polarities adopted 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.
- ☆ 塑膠殼是防火 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 7N-m 至 10N-m(最大)採用不銹鋼材質，堅固耐用。
Assembling screws using M8 screws, torque from 7N-m to 10N-m (maximum) made of stainless steel, durable.

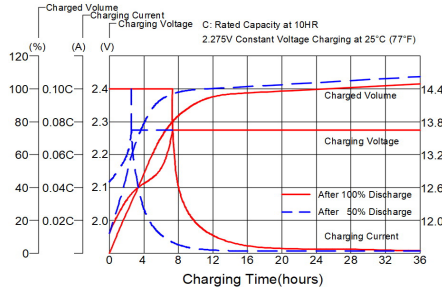
放電特性(25°C)

Discharge characteristic at different rates(25°C)



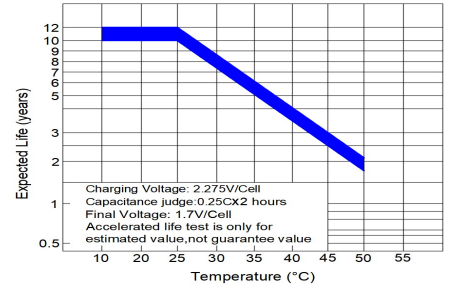
定電壓充電(25°C)

Charging Characteristics



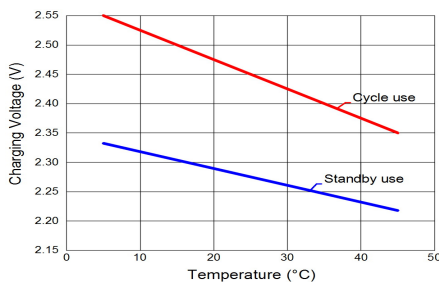
壽命與溫度關係

Accelerated Life Characteristic



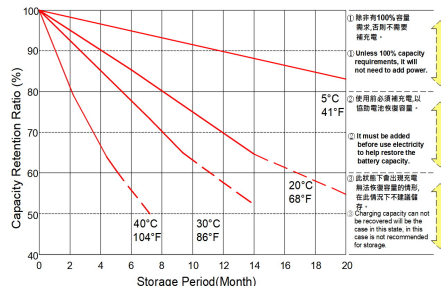
溫度與充電電壓關係

Relationship Between Temperature And Charging Voltage



容量保持特性

Capacity Retention Characteristics



壽命循環關係

Cycle Service Life

