

# 閥調式鉛酸蓄電池(VRLA)

## PL20-12H (12V20AH)

### 規格 Type

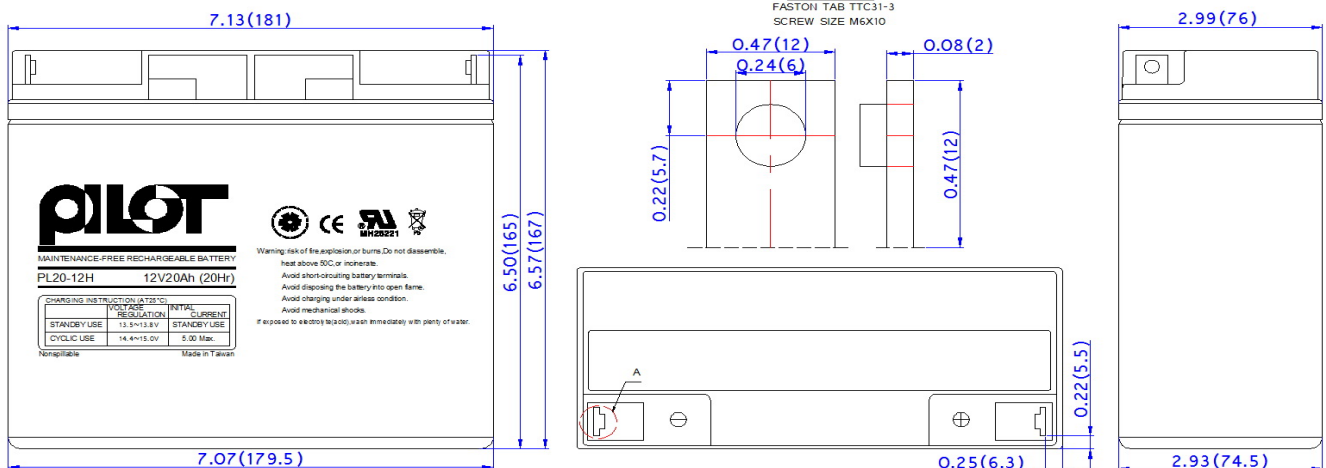
額定電壓 Rated Voltage	12V	
額定容量 Rated Capacity	20.0AH/20Hr/10.5V	端子 Terminal: 螺栓(M6 Bolt)
尺寸 Dimension	長度 Length	181±1mm(7.13in)
	寬度 Width	76±1mm(2.99in)
	高度 Height	167±1mm(6.57in)
	總高度 Total Height	167±1mm(6.57in)
重量 Weight	5.8kg(12.76Pounds)	
電槽材質 Container Material	ABS,UL 94V-0 or UL 94-HB 抗酸、抗油、防震 Resist 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 1.00A to 10.5V	20.0AH
	5 小時率 5HR of 3.24A to 10.5V	16.2AH
	1 小時率 1HR of 13.00A to 10.5V	13.0AH
	0.5 小時率 0.5HR of 21.00A to 10.5V	10.5AH
內阻 Internal Resistance (at 1KHz)	完全充電 Full Charge at 25°C(77°F)	大約 Approx.12.0mΩ
容量受溫度影響 The capacity will be effected by temperature	40°C(104°F)	105%(20HR to 21.0AH)
	25°C(77°F)	100%(20HR to 20.0AH)
	0°C(32°F)	85%(20HR to 17.0AH)
	-20°C(-4°F)	60%(20HR to 12.0AH)
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	300.0A(15CA)	
浮充 Float Charging	電壓 Voltage	13.65±0.15V 25°C(77°F)
	電流 Current	6.00A(0.3CA)
循環充電 Cyclic Charging	電壓 Voltage	14.70±0.30V 25°C(77°F)
	電流 Current	5.00A(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)



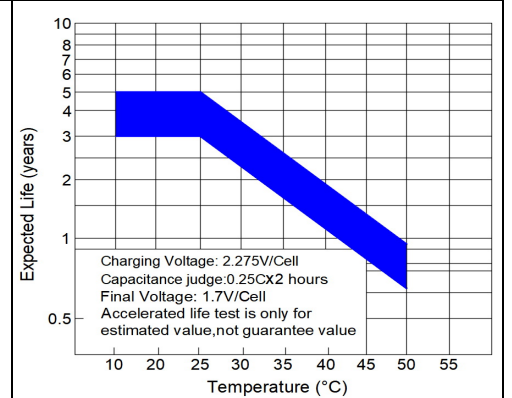
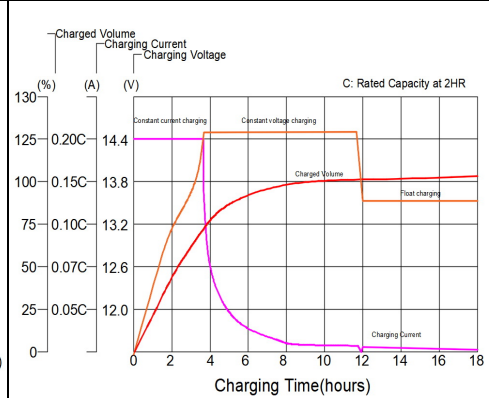
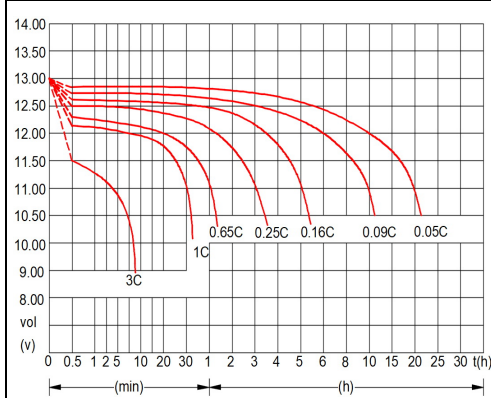
# PL20-12H PROPERTIES

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	95.20	60.40	44.60	36.20	31.80	26.60	23.80	21.60	20.00	18.20	14.00	8.00	5.60	4.40	3.56	2.33	2.04	1.12
	W	1000	634	468	398	350	306	274	248	230	209	161.0	93.6	65.5	51.5	42.7	27.9	24.5	13.4
1.65 (9.90)	A	83.80	55.40	41.20	34.00	29.60	25.20	22.40	20.40	18.80	17.20	13.60	7.90	5.53	4.30	3.52	2.28	2.00	1.10
	W	880	582	433	374	326	290	258	235	216	198	156.4	92.4	64.7	50.3	42.2	27.3	24.0	13.2
1.70 (10.20)	A	76.00	53.20	38.20	32.00	27.80	24.00	21.60	19.60	17.80	16.80	13.20	7.70	5.40	4.15	3.44	2.23	1.88	1.04
	W	798	559	401	352	306	276	248	225	205	193	151.8	90.1	63.2	48.6	41.3	26.7	22.6	12.5
1.75 (10.50)	A	66.60	50.40	35.00	29.80	26.40	23.00	21.00	18.80	17.20	16.00	13.00	7.30	5.07	3.95	3.24	2.18	1.80	1.00
	W	699	529	368	328	290	265	242	216	198	184	149.5	85.4	59.3	46.2	38.9	26.1	21.6	12.0
1.80 (10.80)	A	59.00	45.60	31.80	27.20	24.20	21.80	19.60	18.00	16.40	15.60	12.60	7.00	5.00	3.85	3.16	2.10	1.76	0.98
	W	620	479	334	299	266	251	225	207	189	179	144.9	81.9	58.5	45.0	37.9	25.2	21.1	11.8
1.83 (10.98)	A	55.00	42.00	25.20	23.40	20.20	18.60	17.40	15.60	14.00	13.40	12.00	6.90	4.73	3.65	2.96	2.05	1.64	0.92
	W	578	441	265	257	222	214	200	179	161	154	138.0	80.7	55.4	42.7	35.5	24.6	19.7	11.0

用途 Application	密封結構 Seal construction	穩定性 Stabilities
☆電動代步車 Electric scooter ☆電動機車 Motor vehicles ☆電動腳踏車 Electric bicycle ☆各種電動玩具 All kinds of electric toys	☆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% ☆端子採用合金銅鍍錫材質 Terminals are tin-plated copper alloy material.	☆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% ☆組立用螺絲採用 M6 螺絲，扭力從 5N-m 至 8N-m(最大)採用不銹鋼材質，堅固耐用。 Assembling screws using M6 screws, torque from 5N-m to 8N-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	浮充期待壽命 Float Service Life
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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
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