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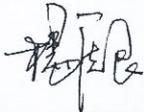
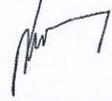
G6F22

TECHNICAL SPECIFICATION

技術規格書

Ecototal Long Life Carbon Battery

源·自然系列-長壽能量碳性電池

PREPARED:	
CONFIRMED:	
APPROVED:	<div style="border: 1px solid red; padding: 2px; display: inline-block;">朱淑清 24 FEB 2025 已批核</div>

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1. Scope 概要

This specification is applicable to Golden Power's Ecototal Long Life Carbon Battery

這技術規格是應用於金力源·自然系列-長壽能量碳性電池

Model No. / 型號 : G6F22

1.1 Designations 型號

Golden Power:	G6F22	IEC:	6F22	Others:	006P
JIS:	6F22	ANSI:	1604D		

1.2 Reference Document 參考標準

IEC 60086-1 (2021-04) - Primary Batteries - Part 1: General

IEC 60086-2 (2021-04) - Primary Batteries - Part 2: Physical and Electrical Specification

IEC 60086-5 (2021-09) - Primary Batteries - Part 5: Safety of batteries with aqueous electrolyte

2. Chemical System Zinc-Manganese Dioxide (Ammonium Chloride Electrolyte)

化學構成

* **Mercury Lead and Cadmium are not added**

鋅 - 二氧化錳 (氯化銨電解)

* 沒有加進汞,鉛及鎘

3. Nominal Voltage 9V

標稱電壓

4. Average Weight 36 g

平均重量

5. Nominal Capacity 330mAh

標稱容量

Condition : discharge at $20 \pm 2^\circ\text{C}$ under 620Ω load for 2 hrs/day to EPV 5.4V

條件 : 利用 620Ω 電阻, 在 $20 \pm 2^\circ\text{C}$ 每日放電 2 小時, 終止電壓為 5.4V

6. Electrical Characteristics 電性能

Test Conditions tested within 30 days after delivery
條件 收貨後 30 天內測試

load resistance 620Ω ± 0.5% temperature 20 ± 2°C Measuring time 0.3 sec
負載電阻 測量溫度 測量時間

	Off-load voltage 空載電壓 (V)	On-load voltage 負載電壓 (V)	Test Specification 驗收規則
New Battery 新電	9.60	9.0	MIL-STD-105E, Class II, Double Sampling, AQL=0.4
After 3 mth. at temp=45°C 在 45°C 下存放 3 個月	9.40	8.65	MIL-STD-105E, Class II, Double Sampling, AQL=0.4
After 12 mth room temp 在室溫下存放 12 個月	9.40	8.65	MIL-STD-105E, Class II, Double Sampling, AQL=0.4

7. Service Output 放電性能

Test Conditions tested within 30 days after delivery
條件 收貨後 30 天內測試

Temperature 20 ± 2°C
測量溫度

Standard 標準	Discharge Condition 放電條件			Average Minimum Discharge Time 平均最少放電時間		
	Discharge load 放電負載	Daily discharge time 每天放電時間	End Point Voltage 終止電壓 (V)	New Battery 新電池	After 3 mth. at temp=45°C. 在 45°C 下存放 3 個月	After 12 mth. at room temp. 在室溫下存放 12 個月
IEC	620Ω	2 hrs	5.4	26 hrs	20.8 hrs	23.4 hrs
IEC	270Ω	1 hrs	5.4	8 hrs	6.4 hrs	7.2 hrs
REF	180Ω	24 hrs	4.8	4.0 hrs	3.4 hrs	3.6 hrs
REF	620Ω	24 hrs	5.4	14 hrs	11.2 hrs	12.6 hrs

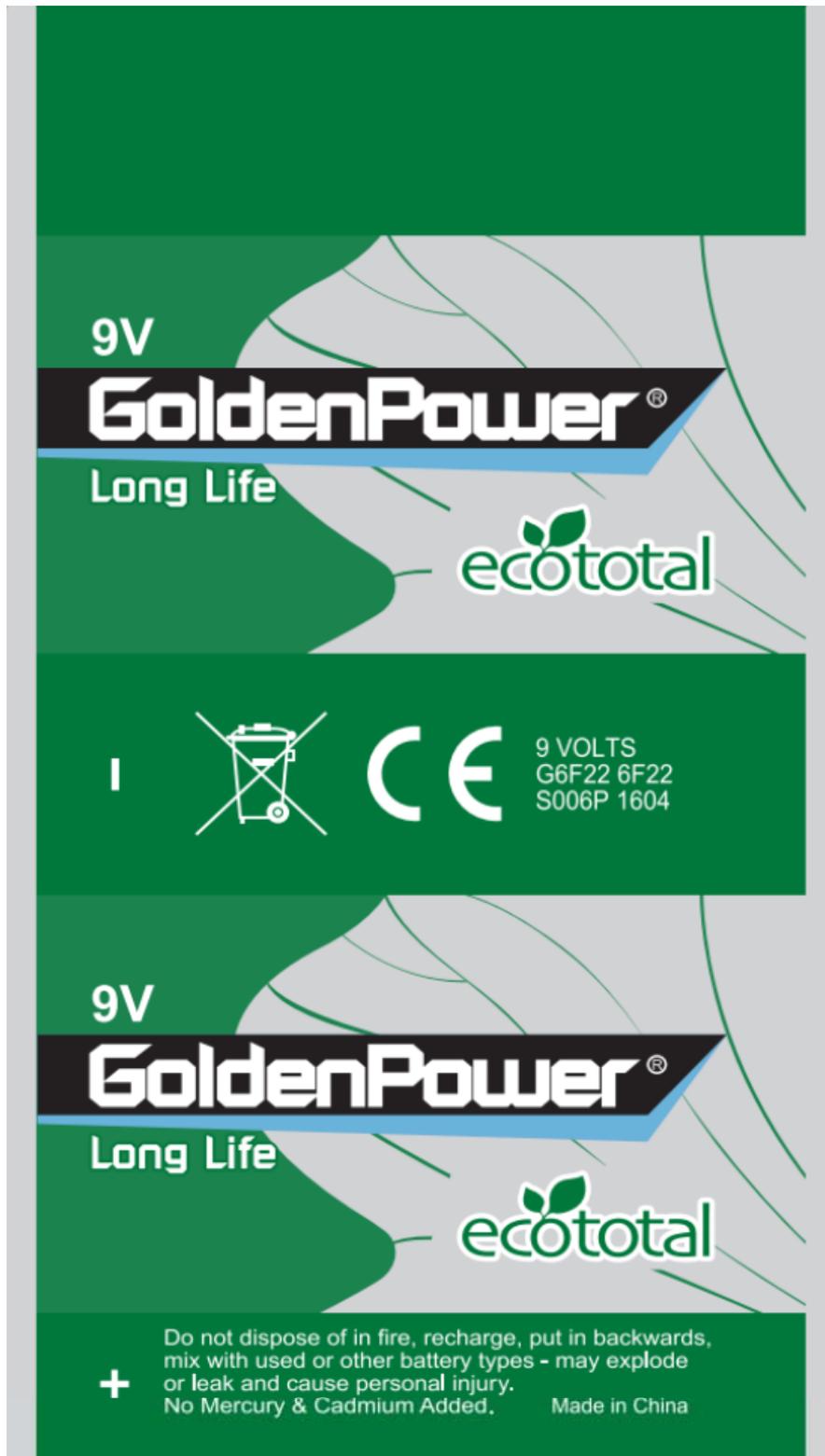
Acceptance Criteria / 驗收標準 :

- (1) 9 pieces of battery will be tested for each discharging standard.
每一種放電條件取 9 只電池進行放電。
- (2) The result of the average discharging time from each discharging standard shall be equal to or more than the average minimum time requirement; and no more than one battery has a service output less than 80% of the specified requirement.
平均放電時間等於或大於平均最少放電時間的規定值，而放電時間少於規定值 80% 的電池數量不大於 1，則認為電池的放電時間符合要求。
- (3) One re-test is allowed to confirm the previous result.
若以上結果不合格，可作一次重驗。

8. Marking 標記

The following markings will be printed, stamped or impressed on the body of the battery:

在電池外標明以下內容：



9. Caution for Use 注意事項

1. Since the battery is not manufactured for recharging, there are risks of electrolyte leakage or causing damage to the device if the battery is charged.
請勿對電池進行充電，這樣可能會導致電池漏液，發生危險及對相關的充電設備造成破壞。
2. The battery shall be installed with its "+" and "-" polarity in correct position, otherwise may cause short-circuit.
在安裝電池時，請把電池安裝在正確的方向，若安裝不正確或會造成短路。
3. Short-circuiting, heating, disposing of into fire and disassembling the battery are prohibited.
請勿將電池短路、加熱、投入火中或試圖拆開。
4. Battery cannot be forced discharge, which lead to excess internal gas generation and, may result in bulging, leakage and de-crimping of cap.
不可強行對電池進行放電，這樣可能會導致電池漏液或發生危險。
5. New and used batteries cannot be used at the same time, when replaced batteries recommend to replace all and with the same brand type.
請盡量避免把新電池及已用過的電池同時使用。
6. Exhausted batteries should be removed from compartment to prevent over-discharge, which cause leakage & damage to the device.
請把已耗盡的電池從用電的產品上移走，避免對電池進行過放，而引起電池漏液。
7. Direct soldering is not allowed, which will damage the battery.
請勿焊接電池，這樣會對電池造成損害。
8. Battery should be kept out of the reach of children to prevent swallow, in case of accident should contact physician at once.
電池應放在小童不可接觸的地方，以免小童誤吞電池。
9. The battery should not be dismantled and deformed.
切勿把電池拆開。

10. Shelf Life 1 year after delivery under proper storage conditions

電池存放期 於常溫及合適環境可存 1 年

Storage Conditions 存放條件

Temperature 20 ± 2°C

溫度

Relative humidity 55 ± 20% RH

相對濕度

11. Discharge Curves 放電圖：

Test temperature / 測試溫度	20 ± 2°C	
Discharge Method(EPV) / 放電方法(終止電壓)：	1) 270Ω, 1hrs/day (5.4V)	Fig 1
	2) 620Ω, 2 hrs/day (5.4V)	Fig 2

12. Battery Dimension and Structure

電池尺寸 及 結構

Refer to Drawing DWG-S-002

參考圖紙 DWG-S-002

13. Packaging Requirements 包裝要求

13.1 For standard bulk package specification.

工業包裝標準.

13.2 Packaging labels should be legible and permanent, label defects and special packaging identifications shall conform to mutually agreed specification and / or approved samples

包裝用標籤須符合易於辨認, 清楚顯示及恆久性要求, 標籤質量問題和其他特別包裝要求須另訂協議或按雙方樣板確認.

13.3 Other packaging for shipment and sales shall conform to mutual agreed packaging specification

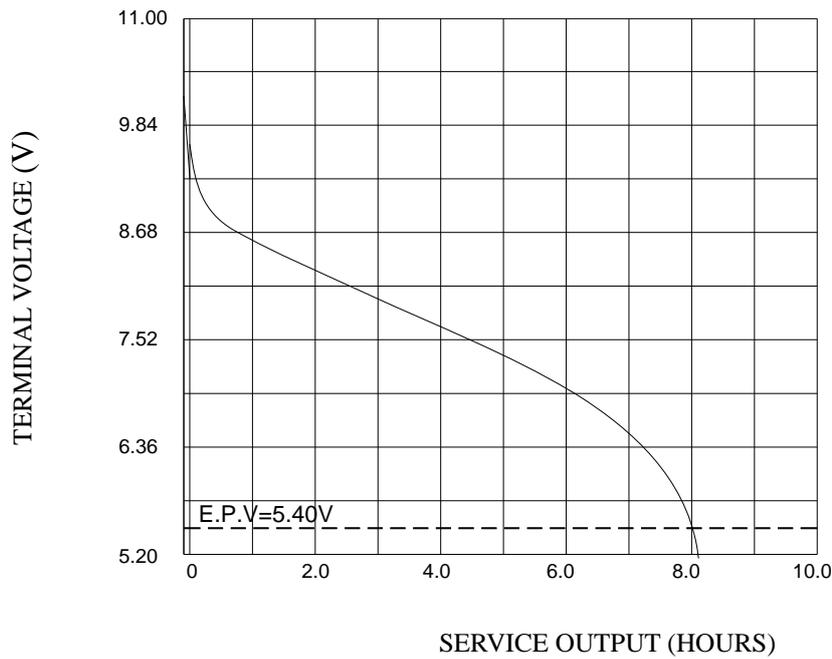
客方特定包裝標準須另訂協議確認

14. Compliance & Environmental Information 法規及環保信息

This product complies with EU RoHS Directive 2011/65/EU, Battery Regulation (EU) 2023/1542 and REACH Regulation (EC) No. 1907/2006.

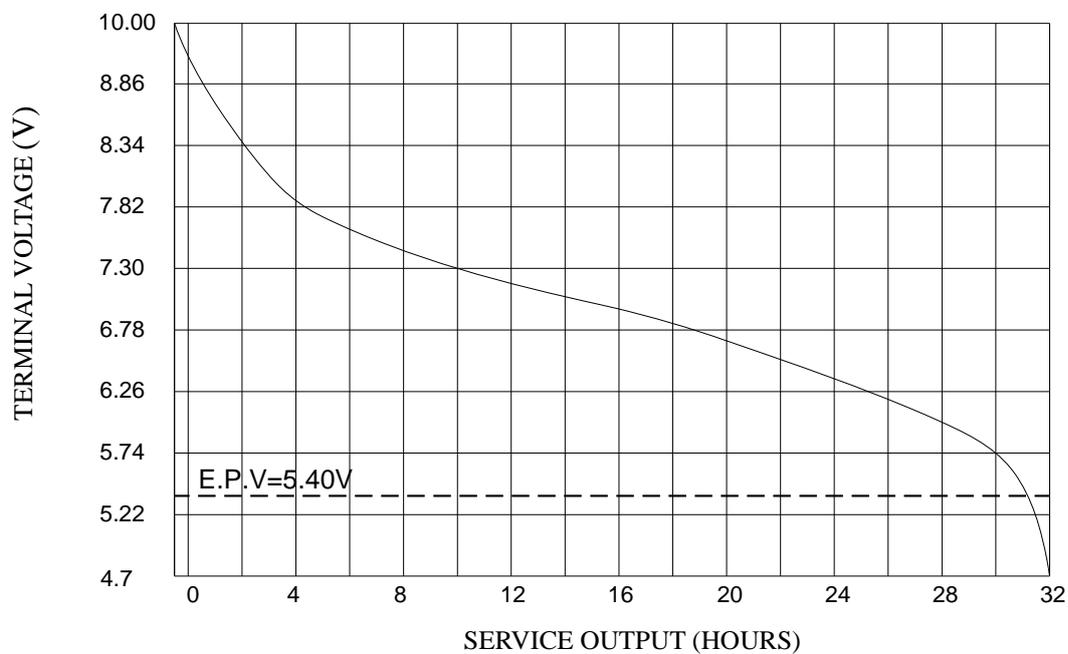
此產品符合歐盟 RoHS 指令 2011/65/EU, 電池法規 (EU) 2023/1542 及 REACH 法規 (EC) No. 1907/2006.

Figure 1 / 圖 1 : DISCHARGE CURVE 放電圖



Test temperature / 測試溫度	20 ± 2°C
Discharge Method(EPV) / 放電方法(終止電壓) :	1) 270Ω, 1 hrs/day (5.4V)

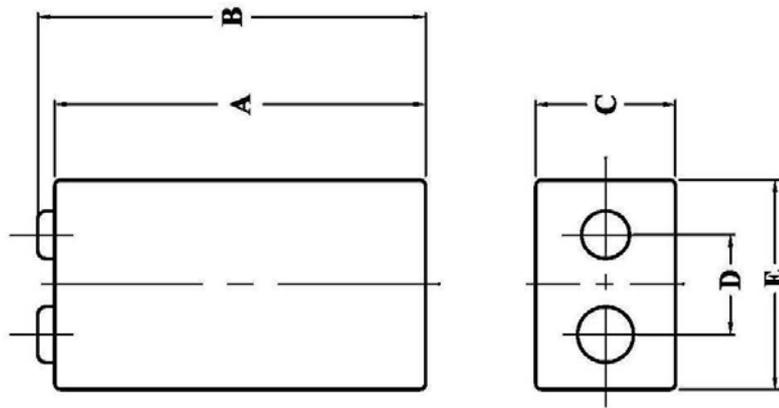
Figure 2/ 圖 2 : DISCHARGE CURVE 放電圖



Test temperature / 測試溫度	20 ± 2°C
Discharge Method(EPV) / 放電方法(終止電壓) :	2) 620Ω, 2 hrs/day (5.4V)

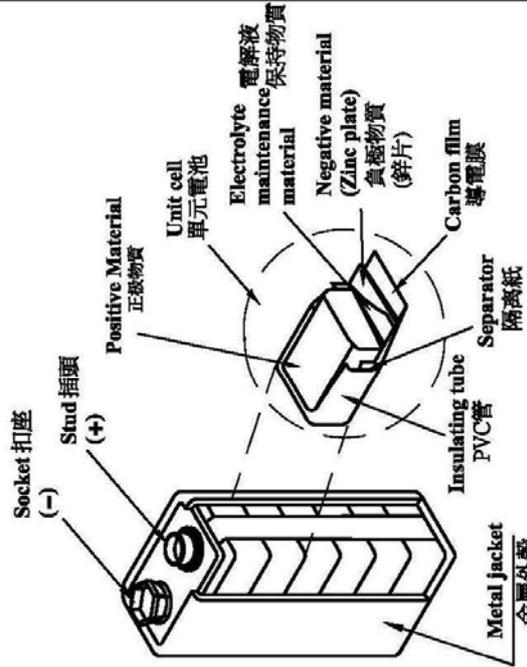
G6F22 DIMENSIONS & STRUCTURE G6F22 尺寸和結構

Dimensions (in mm) :
尺寸 (毫米)



Dimensions 尺寸	Specification 規格
A	46.4 Max
B	48.5^{+0.0}_{-2.0}
C	17.5^{+0.0}_{-2.0}
D	12.7 ± 0.25
E	26.5^{+0.0}_{-2.0}

Structure :
結構:



DWG-S-001