A decorative graphic featuring three blue circles of varying sizes. The top-right circle is the largest, the middle one is smaller, and the bottom-right one is the largest again. Thin blue lines connect the top-left corners of these circles, forming a triangular shape that points towards the top-left corner of the page.

AC 捲門馬達專用 EPS 使用手冊

Green Power System

目錄

§一、簡介.....	3
§二、注意事項	3
§三、電捲門專用 EPS 產品介紹	4
§四、燈號及警示音	5
§五、電捲門專用 EPS 規格	6
§六、操作說明.....	7
§七、安裝.....	7
§八、停電待機輸出電壓調整	8
§九、停電馬達運轉電壓調整.....	8
§十、裝配說明.....	9
§十一、安裝示意圖.....	10
§十二、產品保證書.....	11

1. 簡介：

在能源緊縮殆盡的時代、電力不足情況隨時會發生，供電正常時、電動捲門帶給人們安全及便利性，在停電時、電動捲門反而造成了人們的危險及不便。為了人身安全、電動捲門加裝專用 EPS(緊急供電設備)來確保於停電狀態下仍能維持其功能，已成為趨勢，也是必要的安全裝備。

坊間 EPS 琳瑯滿目、大多是設計給資訊產品使用、不適合給電動捲門馬達使用，其效率差，待機可用時間短，非馬達專用故障率也高，為了人身及財產安全，選擇適用的 EPS 是非常重要的。

2. 注意事項

1. 一台 EPS 只可以連接一個捲門馬達及一組遙控器。
2. 本電捲門專用 EPS 具備電池自動檢測功能，請勿經常性的做停電測試，以保有電池的最佳狀態。為了安全起見、EPS 必須於每季進行一次 12 小時以上的斷電測試，測試門片是否還可正常開關使用。
3. 本機出電插座(馬達電源)不可送入市電，以免造成 EPS 故障。
4. 門片有保全系統管控的環境，EPS 的市電來源請直接接市電，EPS 出電再接至保全的門片電源控制，請參照裝配說明圖。
5. 電動捲門專用 EPS 具有節能供電和啟動及運轉供電模式、針對 AC 電動捲門系統運作而設計、其設備包含遙控器及電動捲門馬達(單相交流馬達一組)，不可用於一般電器設備，否則將不予於保固。
6. 本產品為精密電子產品，請置於屋內使用，安裝環境須保持清潔、乾燥、避免潮濕(小心雨水)、通風要良好。
7. EPS 內部高壓危險，非專業授權技師請勿自行打開機器外蓋進行檢修或調整，擅自打開機器造成撕毀無效貼紙斷裂、即喪失保固權利。
8. 本 EPS 為內含電池式 EPS，不可擅自更改電池容量或外加電池。
9. 電池為耗材、建議 2-3 年更換一次。
10. 因天災地變、雷擊或人為引起之故障或損毀將不予保固。
11. 偏遠地區及山區服務，不論是否超過保固期間，均酌收車馬費。
12. 請於 3-6 個月做一次系統維護及清潔保養，PCB 上的灰塵、棉絮或小動物排泄物可能造成系統故障或 PCB 電蝕產生高溫而起火燃燒。
13. 定期維護保養可以延長機器使用壽命及安全性。

3. 電捲門專用 EPS 介紹：

A2D 及 A4D 是屬於電動捲門專用 EPS、針對 AC 電動捲門系統運作而設計、並且採用高頻升壓控制，有效的提高電池的利用率、並達到省電節能的功效、其負載設備包含遙控器及電動捲門馬達（單相交流馬達一組），不可用於一般電器設備，其功能具備如下：

1. 自動開機功能：

有市電進入 EPS 時、系統將自動開機，不會因為人為疏忽忘了開機導致停電時不能使用。

2. 燈號及警告音通報功能：

EPS 偵測到異常狀態時會發出警告音及狀態燈號告知。

3. 節能供電模式：

提供 3 種節能供電模式、包含馬達啟動、馬達運轉和待機 3 種供電模式，有效的提高電池利用率。

4. 停電時待機時間長：

沒裝遙控器時、A2D 待機可用時間超過 48 小時，A4D 超過 96 小時，有裝遙控器時就必須視搭配的遙控器耗電量而定。

5. 全自動充電管理：

具備均充、脈充、浮充、活化等專業充電管理模式，提高電池性能及使用壽命。

6. 過載保護及燈號指示與警告音通報：

不會因為超載不知道而導致停電時不能使用。

7. 保險絲故障通報：

馬達老舊、故障、線路短路或電磁開關動作不確實等狀況所導致保險絲故障發出警告，有此功能就更有保障。







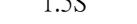
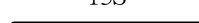
8. 停電時自動解除控制器斷電功能：

為了安全考量，在停電狀態下 EPS 將會自動解除遙控器斷電功能，在須逃生的緊急狀況下、不須找遙控器解除控制器斷電功能、直接到門邊按下開門按鍵即可開門逃生。

9. 保養成本低：

EPS 電池採用標準鉛酸閥調防爆電池，安全且容易取得。

4. 燈號及警示音說明：

LED 燈號	狀態說明	警示音	備註
紅漸轉成綠	開機指示	 50hz 60hz	開機中
橘燈亮	充電 管理中	無	
綠燈亮	電池 已充飽	無	
綠燈閃	負載錯誤	持續 	負載連續使用超過 3 分鐘， 請關閉負載。
紅綠交替亮	EPS 電 池供電中	停電通知/無	由電池提供馬達運轉能量
紅燈恆亮或 慢閃	停電 待機中	 2 6S	停電時通報， 間隔 6 秒叫一次，維持 3 分鐘。
紅橘交替亮	內部或外部 保險絲故障	 2 3S	EPS 電池供電中，電池電量用 完就無法供電，此時電捲門就 會無法開關，請盡快修復。
紅燈閃爍	電池低電量 通知	 4/8 6S	4 聲...待機中低電量,5 分鐘後 自動關機。 8 聲...馬達運轉中低電量。
紅綠交 替快閃	電池無法充 飽	 8 6S	1. 電池規格是否吻合。 2. 請做放電測試，確認電池是 否故障。 3. 重新開機
紅燈緩 慢熄滅	電池能量已 用盡	 1.5S 5S	停止輸出，1.5 分鐘後 將自動關機。
橘燈閃爍	負載過大 (請降低負 載量)	 13S	市電正常→警告、不中斷供電 電池供電→中斷供電，13 秒過 後自動恢復供電。

5. 電捲門專用 EPS 規格說明：

機 型		A 2 D	A 4 D	備 註
保 險 絲		15A	15A	
市 電 輸 入	電 壓	230V ± 15%		EPS 會自動辨識市 電輸入頻率是 50 或 60HZ，同時設 定為停電輸出頻 率。
	頻 率	50/60HZ ± 5%		
充 電 中 平 均 消 耗 功 率		17W/max		
停 電 輸 出	頻 率	50/60HZ ± 1%		輸 出 電 壓 可 由 面 板 開 關 調 整
	待 機	170V/190V ± 15%/5W(max) (節 能 模 式)		
	運 轉	220V ± 10%		
待 機 消 耗 功 率 (空 載)		< 1W		
內 含 電 池		24V/4.5/5/7.0/7.2 AH	24V/7.0/7.2/9 AH	鉛 酸 防 爆 型 電 池
空 載 待 機 時 間 (全 新 電 池)		48 小 時	96 小 時	有 裝 遙 控 器 時 就 必 須 視 搭 配 的 遙 控 器 耗 電 量 而 定
適 用 馬 達	馬 達 規 格	6P 1/2HP 400kg 以 下 馬 達	6P 1/2HP 700kg 以 下 馬 達	
	啟 動 電 流	8A 以 內	10A 以 內	
	運 轉 電 流	2.7A 以 內	3.7A 以 內	

6. 操作說明：

1. 開機：

1. 方法(一)：將市電送入 EPS，EPS 會自動開機。
2. 方法(二)：無市電狀態下開機，直接壓放 F.S.開關 2 次(2 秒內)、LED 亮起，開機完成。

2. 關機：

有市電狀態下 EPS 無法完成關機，必須先中斷市電，再按住 F.S. 開關 3 秒以上，等待 LED 及 BUZZER 聲音關掉，此時放開關，關機完成。

3. BUZZER 聲音開啟與關閉：

1. BUZZER 關閉：按 2 次 F.S.開關，BUZZER 沒有回應聲音。
2. BUZZER 開啟：按 2 次 F.S.開關，BUZZER 回應 Bi Bi 2 聲音。

7. 安裝：請參照裝配圖

1. EPS 的安裝位置、請盡量靠近馬達。

2. 安裝掛壁架：

掛壁架安裝時，膨脹螺絲鑽孔深度須達 3cm 以上才能達到安全固定目的。

3. 配線：

A2D 或 A4D 裝配時的電線請選用 18AWG 或 1.6mm 實心線，耐壓 600V 以上。

4. 將 EPS 掛於架上，並將連接馬達的電源線插入 EPS 出電插座。

5. 請於停電狀態下開機(壓放 F.S.開關 2 次)，等待 LED 燈顯示為紅色(停電待機中，超過 25 秒沒操作門片，待機燈號會改為 3 秒閃一次)。

6. 啟動馬達進行測試、上下走一趟，壓扣開關及遙控器都要測試，遙控器測試項目：上、下、停和斷電(在停電狀態下 EPS 會自動解除斷電功能)，檢查馬達運轉及操作是否正常。

7. 在有市電或停電狀態下，馬達運轉時 EPS 燈號若呈現橘燈閃爍、代表馬達耗電量過大、超出本機輸出功率，請選擇功率較大的 EPS 或檢查馬達傳動結構是否異常，若門片變形也會導致馬達阻力加大，增加門片軌道潤滑度、可降低馬達運轉電流(省電)，提升馬達效率及使用壽命。

8. 若運轉正常，請將市電送入 EPS 入電插座，此時 LED 燈呈現橘色，表示充電中(充飽後呈現綠色)，進行有市電的測試、讓門片上下再走一趟。

9. 在有市電及停電狀態下馬達及門片都能正常運作，EPS 也就安裝完成。

8. 停電輸出調整：

1. 可調整項目：

待機電壓(功能碼 F = 3)，馬達運轉電壓(功能碼 F = 4)。

"功能碼" = F.S.開關按的次數。

2. 調整程序：功能碼+調整碼、無法連續調整

1. 在無市電狀態下開機、等待 EPS 輸出待機電壓。

2. 輸入"功能碼"，輸入功能碼後必須等待 1 秒鐘確認，EPS 會以 Bi 聲回應輸入值，"功能碼" 輸入必須在開機後 10 秒內完成才可進入此功能。

3. 輸入調整碼。

4. 要繼續調整請重複輸入功能碼及調整碼。

5. EPS 以 Bi 聲回應輸入值後，在 10 秒內若沒有進行按鍵操作，系統會自動離開調整功能，若想繼續操作請重新操作"調整程序"。

6. 確認後請關機儲存設定值。

3. 待機電壓調整：F = 3 (F.S.開關按 3 次)

1. 調整時機：(待機電壓調高、待機時間相對減少)

1. 停電時遙控器接收主機動作不確實，例如：手動操作壓扣開關控制門片運作都正常，但是用遙控器操控時、門片只能上或下或是斷電功能無法解除，此時請調高待機電壓。

2. 在特殊情況下必須接 2 台遙控器或遙控較耗電時。

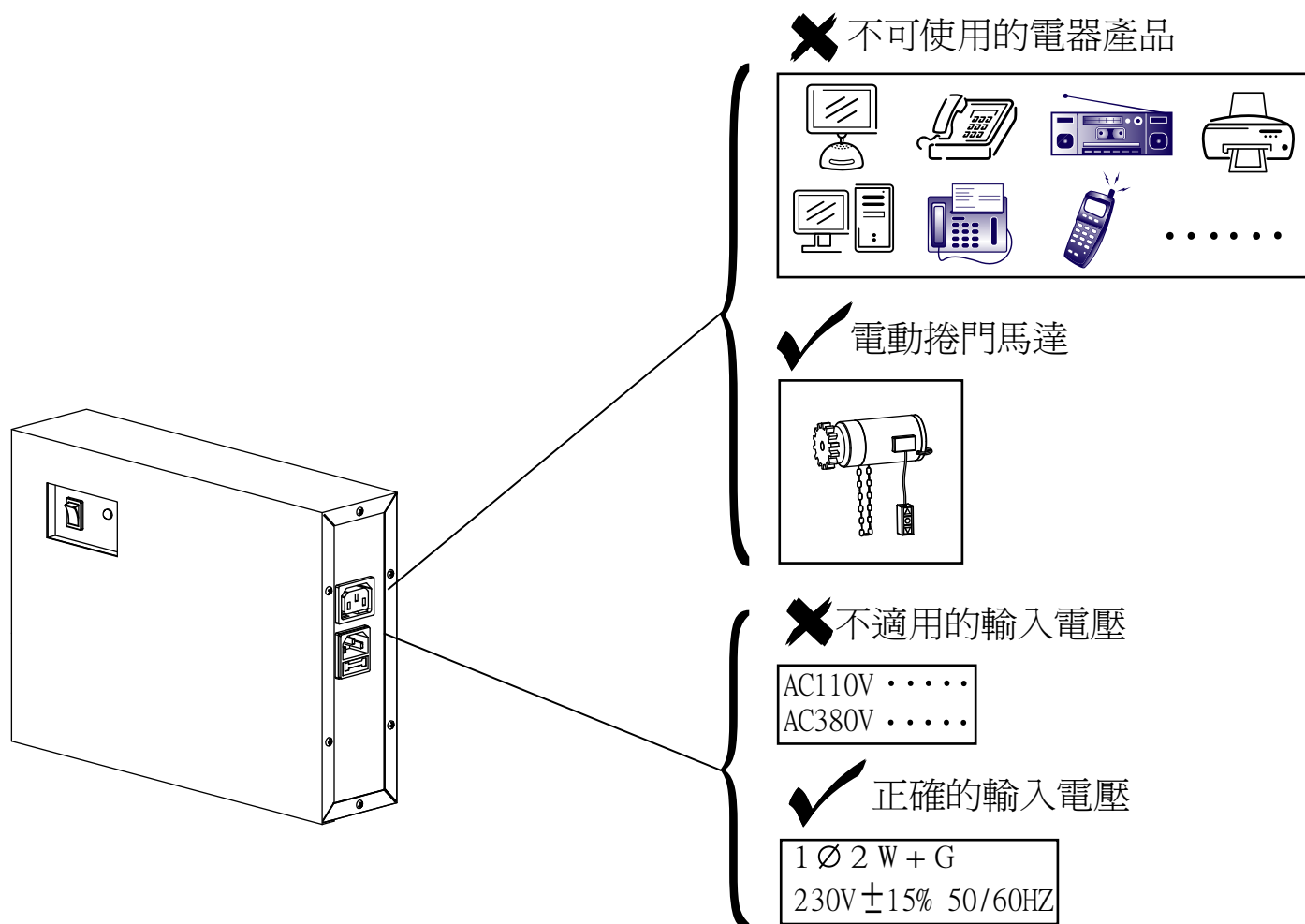
調整碼	功能說明	回應	備 註
無輸入	不改變現狀	0	EPS 以 Bi 聲音回應輸入數值的同時會改變待機輸出電壓，有三種待機輸出電壓(高、中、低)可供設定，出廠設定為低。
按 1 次	低功率 (出廠預設值)	1	
按 2 次	中功率	2	
按 3 次	高功率	3	

4. 馬達運轉電壓調整：F = 4 (F.S.開關按 4 次)

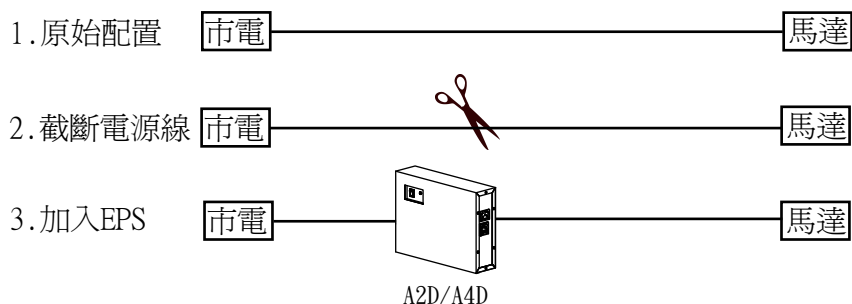
調整時機：門片運作不順、拉不動或過慢時，可調整運轉電壓。

調整碼	功能說明	回應	備 註
無輸入	不改變現狀	0	EPS 以 Bi 聲回應輸入數值的同時改變輸出電壓，1 個刻度大約=AC 7-10V， 增減範圍=出廠設定值+2 或 -1
按 1 次	減少 1 個刻度	1	
按 2 次	出廠預設值	2	
按 3 次	增加 1 個刻度	3	
按 4 次	增加 2 個刻度	4	

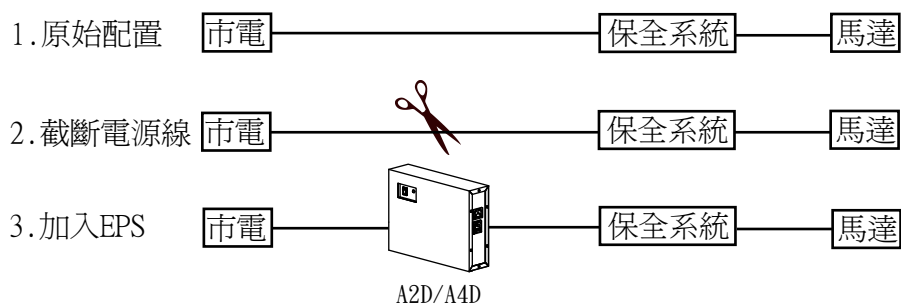
A2D/A4D 裝配說明



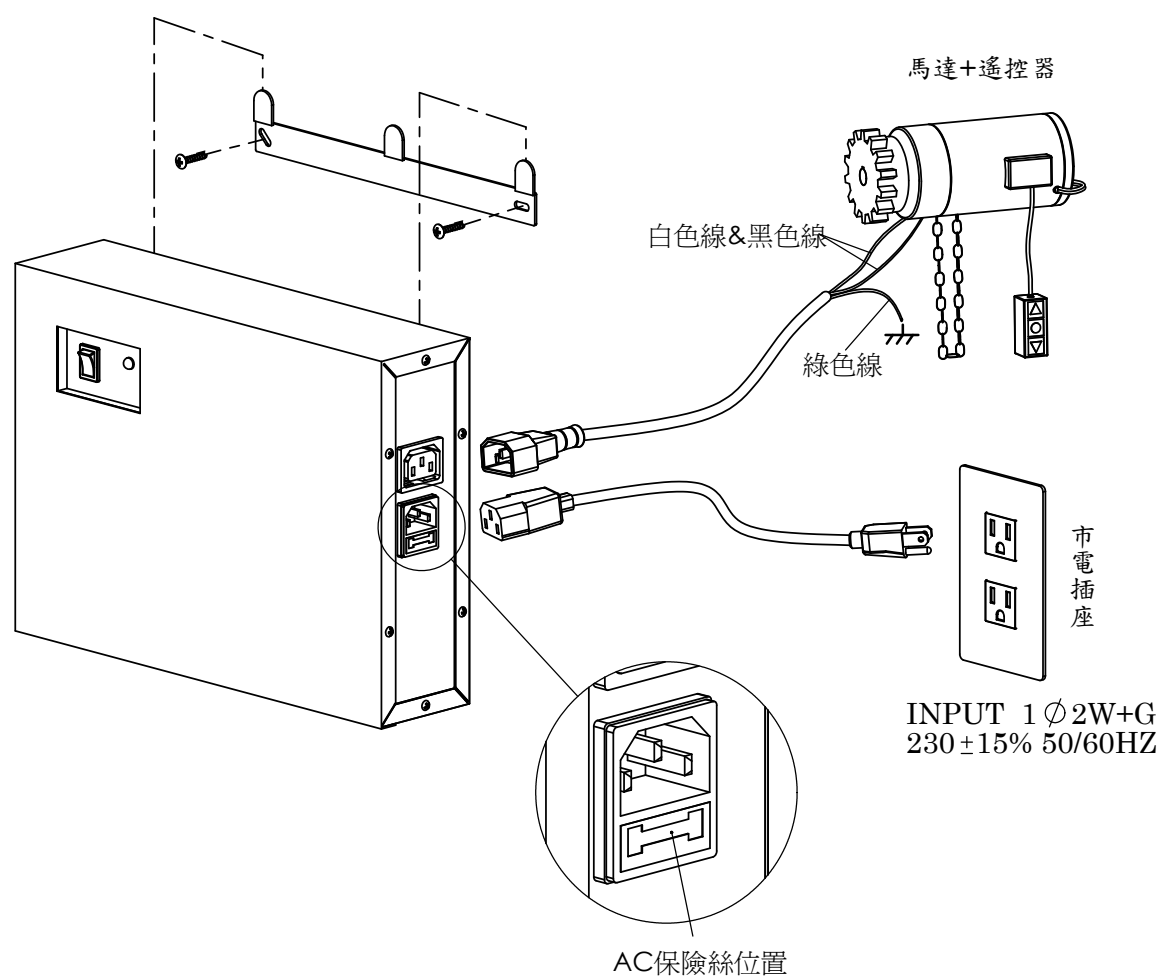
A2D/A4D 電源配置順序



A2D/A4D 電源配置順序(有保全系統)



A2D/A4D安裝示意圖



產品保證書

姓名		電話	
住址			
購買日期			
經銷商		電話	
店址	(店章)		

第一聯寄回公司

承蒙惠顧，不勝感激。為維護您的權益應即請經銷商填寫購買日期並蓋店章。始享有本公司自購買日起一年免費服務。並請於本公司之技術員前往服務時主動提示本保證書以享受權益。

機型：

☐ A2D電池內裝 ☐ A4D電池內裝

機號：_____



產品保證書

姓名		電話	
住址			
購買日期			
經銷商		電話	
店址	(店章)		

第二聯客戶留存

承蒙惠顧，不勝感激。為維護您的權益應即請經銷商填寫購買日期並蓋店章。始享有本公司自購買日起一年免費服務。並請於本公司之技術員前往服務時主動提示本保證書以享受權益。

機型：

☐ A2D電池內裝 ☐ A4D電池內裝

機號：_____

The EPS Exclusively for AC Electric Roll-up Doors USER'S MANUAL

GREEN POWER SYSTEM

A2D & A4D SERIES



Both A2D and A4D are EPS that are designed especially for operating AC electric roll-up doors with high frequency step-up control. The design can effectively increase the utilization rate of battery, save power and energy. When an outage has occurred, the EPS has to provide source of power to a remote control and a motor for the electric roll-up door (a set of single-phase AC motor). The EPS is not intended for use in household appliances.

INDEX TO SECTION

Introduction	3
Important Notice	3
The EPS exclusively for AC Electric Roll-up doors introduction	4
Indicators and Alarm	5
Specifications	6
Operating instructions	7
Installation	7
The adjustment of standby voltage during power outage	8
The adjustment of motor operating voltage during power outage	8
Installation Schematic	9,10
Guarantee Letter	11

1. Introduction :

The significant shortage of energy resource may cause electric outage to occur any time. Under normal supply of power, an electric roll-up door that functions properly is quite safe and a convenience. On the other hand, one that functions poorly can quite literally result in danger and inconvenience. For your safety, the EPS(Emergency Power Supply) installation becomes necessary for providing power to the roll up door in the event of power problems or outages.

There are different types of EPS systems in the marketplace and that are mostly designed for computer industry. An inappropriate EPS may not serve the purpose properly and efficiently. The amount of time they can provide power to the connected electric roll-up doors may be insufficient and they are often with high failure rate as they are not intended for use with the specific equipment. For safety, choosing a right EPS that is designed exclusively for electric roll-up doors is of importance.

2. Important Notice :

1. Though 1 EPS unit can connect up to 1 motors simultaneously, 1 motors and group of remote controls.
2. The EPS exclusive for electric roll-up doors tests the battery function automatically. To keep the battery in optimal conditions, no frequent testing is required. However, for safety, you need to conduct a 12 hour power-off reliability test every three months to make sure that the door opens with ease and maintain a contingency supply system.
3. To protect the EPS from breakdown, do not connect the output socket to the utility supply.
4. With a security system, connect EPS input to the utility supply and EPS output to the power controller of roll-up door, please refer to the assembly drawing.
5. The EPS exclusive for electric roll-up doors is with energy saving mode, Start mode, and Motor Operation mode. It is designed especially for operating AC electric roll-up doors. The system includes a remote control and a motor(single phase). Any use of the EPS with household appliances other than electric roll-up doors will not be covered by the warranty.
6. This product for the precise electronic products, use in the room please. Installs the environment to have to maintain cleanly, dry, avoids moistly (careful rain water), must ventilate good.
7. This is a high voltage EPS. Only trained and authorized electricians should remove cover for repair or setting. Any repair or opening of the EPS by anyone who is not qualified will cause the breakage of sticker and loss of warranty.
8. The EPS is equipped with its battery. Do not try to make any adjustment or add any external batteries.
9. The battery is an expendable. We recommend that you replace it every two or three years.
10. We are not liable for damage caused by Acts of God, such earthquakes and lightening strike.
11. Service at faraway places or at mountain areas should be charged even if it is within the Guarantee period.
12. Perform a systematic maintenance and cleanup every 3-6 month. The dust, cotton fiber or the excreta of any small living things on the PCB may cause system failure or the machine may catch fire due to high temperature caused by electric erosion of PCB.
13. The routine maintenance may lengthen its service life and increase the safety.

3. Introduction of an EPS for Electric Rolling Shutter :

Both A2D and A4D are EPS that are designed especially for operating AC electric roll-up doors with high frequency step-up control. The design can effectively increase the utilization rate of battery, save power and energy. When an outage has occurred, the EPS has to provide source of power to a remote control and a motor for the electric roll-up door(a set of single-phase AC motor). The EPS is not intended for use in household appliances. Its respective functions are as follows:

1. Automatic turn-on:

When utility line power is input, the EPS turns on automatically. No worry about forgetting to turn on the switch.

2. The indicator and alarm sending out warning signals:

Whenever an abnormal condition is detected, the indicator and alarm will send out warning signals.

3. Power supply with energy saving mode:

There are three(3) modes of power supply, i.e. start, motor operation and standby to effectively increase the utilization rate of battery.

4. Long back up time during power failures

Without the remote control, the A2D gives more than 48 hours of use when an outage has occurred, while A4D gives more than 96 hours of use. With the remote control, the number of hours of use depends on the power consumption of the remote control.

5. Full Automatic Battery Charge Management

There are four charging modes, i.e. equalization charge, pulse charge, float charge and condition to increase the performance and prolong the life of the battery.

6. Overload Protection:

The EPS is configured to provide a warning signal when an overload situation occurs, so that it will not become out of work during power failure.

7. Warning of fuse breakage:

It will send out a warning signal whenever a fuse breakage occurs either by the age of the motor, breakdown of motor, a short circuit or improper electromagnet action.







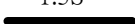

8. Automatic release of automatic power cut-off function when an outage has occurred:

For safety, the EPS will release automatically the automatic power cut-off function when an outage has occurred, so that when people are escaping from a state of emergency, there is no need to look for the remote control to release the function. The only thing they need to do is accessing to the door and press the button to open.

9. Low-cost maintenance:

The EPS uses a standard lead-acid battery with an explosion-proof valve. It is safe to use and readily available on the market.

4. Indicators and Alarm :

LED	CONDITION	AUDIBLE SIGNALS	INDICATIONS
The red LED turn to green from red gradually	Turning on signal	 50hz 60hz	Indicates the system is being turned on.
The orange LED lights up	The battery is being charged.	Nil	
The green LED lights up	The battery has been fully charged.	Nil	
The green LED flashes	Load Error	Continue 	Continuous load runs for more than three(3) minutes. Please close the load.
Red LED and green LED light up alternately	The EPS is supplying the power	Warning of power failure/nil	The EPS is supplying the power.
The red LED lights on or flashes slowly	Power failure Standby	 2 6S	Warning a power outage every six seconds for a period of three minutes.
Red LED and orange LED light up alternately	Breakage of fuse inside the system or outside the system	 2 3S	The EPS is supplying the power, indicating the electric roll up door needs to be repaired before the EPS drains out.
Red LED flashes	The battery is low.	 4/8 6S	The system beeps four times... the battery is low in the standby mode. the system will be turned off five minutes later. The system beeps eight Times... the battery is low in the motor operation mode.
Red LED and green LED flashes alternately	The battery can not be charged to its full capacity	 8 6S	1. Check the battery's specifications. 2. Check if the battery works properly. 3. Re-start.
Red LED goes out slowly	The battery is draining out.	 1.5S 5S	The system is turning off within one minute and a half.
Orange LED flashes	Overload (Reduce the load)	 13S	Utility power → Warning 、 power uninterrupted Supplying for the battery → The power will be interrupted before it is resumed thirteen seconds later.

5. Specifications :

Model		A2D	A4D	Remarks
Fuse		15A	15A	
Input utility power	Voltage	230V ± 15%		The EPS will identify if the utility power input is 50Hz or 60Hz and set up output frequency during power failure.
	Frequency	50/60HZ ± 5%		
Average power consumption during charging		17W/max		
Output during power failure	Frequency	50/60HZ ± 1%		The output voltage may be adjusted on the panel.
	Idle Standby	170V/190V ± 15%/5W(max) (Energy saving mode)		
	In Operation	220V ± 10%		
Power consumption in Standby Mode		< 1W		
Battery included		24V/4.5/5/7.0/7.2AH	24V/7.0/7.2/9AH	Lead-acid battery with explosion-proof valve
Back Up Time in Standby Mode (Brand new battery)		48 hours	96 hours	It depends on the power consumption of the remote controller equipped.
Applicable Motor	Specification	6P 1/2HP Less than 400kg	6P 1/2HP Less than 700kg	
	Startup Current	Less than 8A	Less than 10A	
	Operating Current	Less than 2.7A	Less than 3.7A	

6. Operating instructions :

1. To turn on:

1. Turn on with utility power: Input utility power to EPS, EPS will start automatically.
2. Turn on without utility power - press the F.S. Switch twice (within 2 seconds), the LED will light on.

2. To Turn off:

With utility power , one cannot turned off the EPS. Please interrupt utility power, then keep pressing the F.S. Switch for three seconds or more until both the LED and BUZZER are off.

3. BUZZER ON and OFF:

1. Buzzer off: press twice F.S. switch ,BUZZER is not responding.
2. Buzzer on: press twice F.S. switch , BUZZER responds by beeping twice, Bi Bi.

7. Installation: Please refer to the assembly drawing :

1. The EPS should be installed as close as possible to the motor.
2. Install a wall mount:
To install the wall mount, the hole depth of expansion bolt must exceed 3 cm to have the wall mount secured.
3. Connection:
To connect the A2D or A4D, please use 18AWG or 1.6mm solid wire with withstanding voltage of 600V and more.
4. Mount the EPS on the wall. Plug the motor into the outlet of EPS.
5. Turn on the EPS without utility power(press the F.S. Switch twice) until the red LED lights up.
During power failure, if the door is not operated within twenty five seconds in the standby mode, the standby LED will flash every three seconds.
6. Start the motor for testing. Go up and down, press buttons and test the remote control, i.e. up, down, stop and cut off the power supply. Check if the motor revolution and operation are normal.
7. With utility power or during power outage, the flashing of the orange LED indicates that the motor is consuming too much power. Please choose a EPS with larger power or check if there is any problem with the transmission of the motor. A motor with a deformed door will also take more power. Lubricating the door will reduce the current that the motor has to take to operate the door and thus increase the efficiency of motor and its life.
8. If the motor is operating properly, plug the EPS to a utility power socket. The yellow LED indicates that the battery is being charged and the green one indicates that it has been fully charged. When utility power is present, test open and close the door.
9. When the motor and door can operate properly either with utility power or without utility power, the EPS is installed completely.

8. Adjustment of Output during Power Outage :

1. Adjustable items:

Standby voltage(Function Code F = 3), motor revolution voltage(Function Code F = 4).

"Function Code" = Number of press on F.S. Switch

2. Adjusting procedures: Function Code + Adjusting Code. No continuous adjustment.

1. Turn on without utility power, wait for EPS to deliver standby voltage.
2. Enter "Function Code". Wait for one second. EPS will confirm the input value with a "beep" sound. The entry of "Function Code" must be completed within ten seconds after the system is turned on.
3. Enter Adjusting Code.
4. To continue, enter again Function Code and Adjusting Code.
5. After EPS confirms the input value with a "beep" sound, the system will leave automatically the adjusting mode if the Adjusting Code is not entered within ten seconds. To continue, repeat the adjusting procedures.
6. Save the value and turn off.

3. Adjustment of standby voltage: F = 3 (Press F.S. Switch three times)

1. Time to adjust:(When the standby voltage is increased, the backup time will be reduced accordingly.)
 1. During power interruption, the remote control does not work properly. For example, with the remote control, the door can only be moved up or down or the power cut-off function can not be released.
 2. When two remote controls are required or the remote control takes too much current.

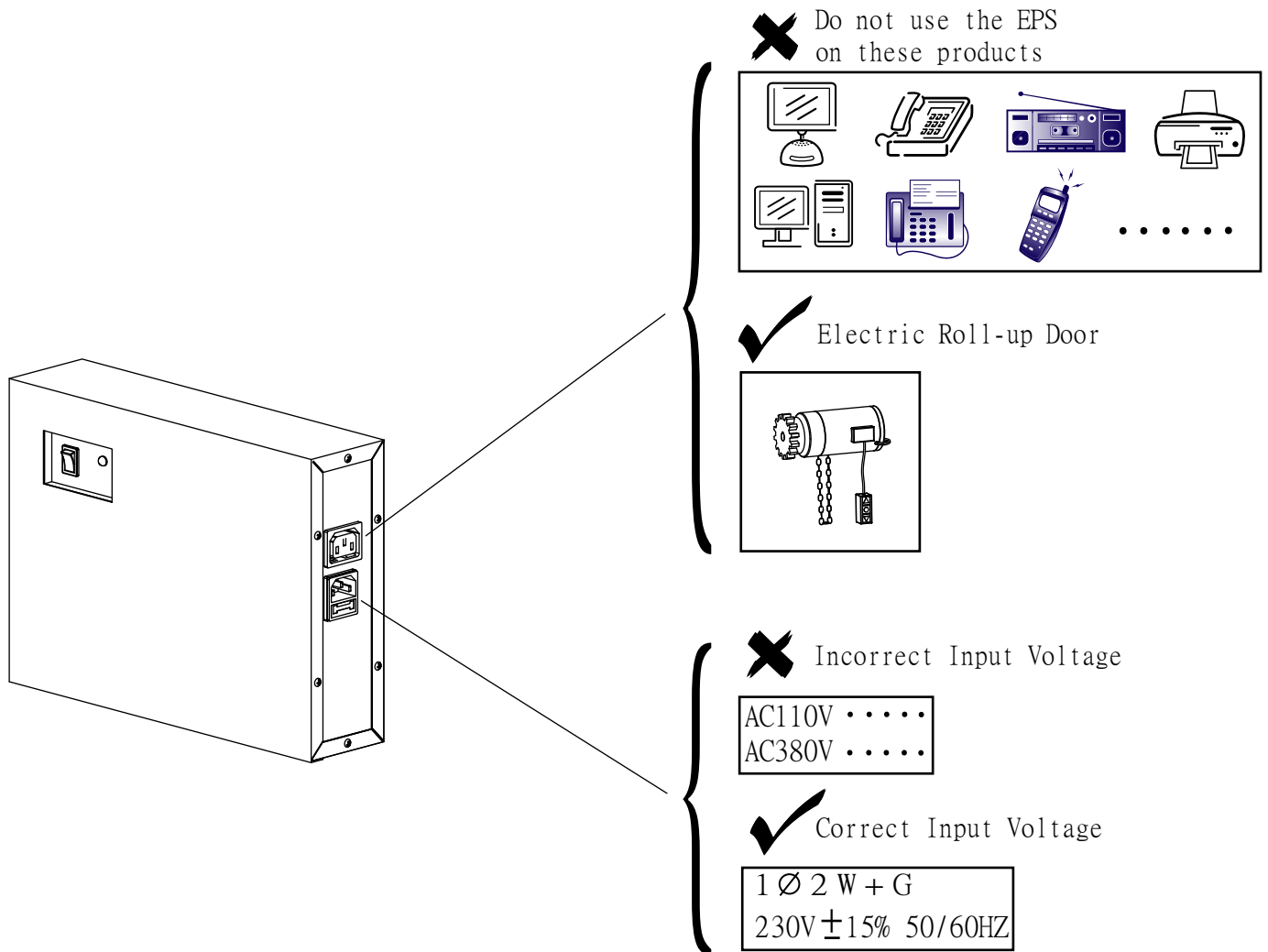
Adjusting code	Function	Confirmation	Remarks
No entry	Present condition is not changed.	0	The EPS changes the standby voltage when it confirms the entered value with the beep sound. There are three output voltages available(high 、 middle 、 low). It is default setting at Low.
Press once	Low Power (Default Setting)	1	
Press twice times	Middle Power	2	
Press 3 times	High Power	3	

4. Adjustment of motor revolution voltage: F = 4 (press F.S. Switch four times)

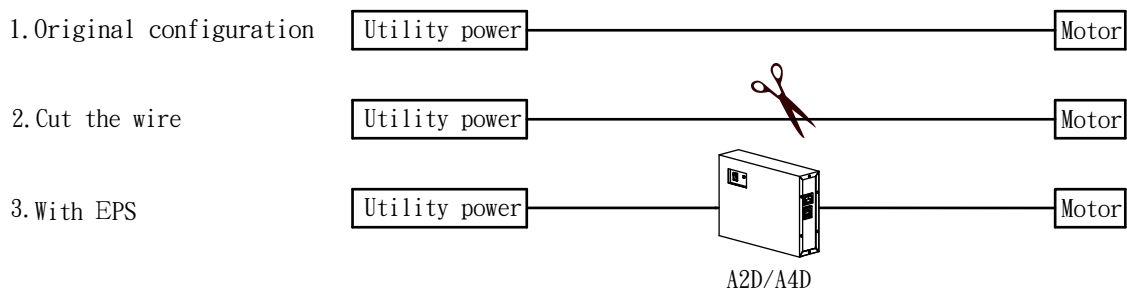
Time to adjust: When the door cannot be operated properly, or does not move, or move too slowly.

Adjusting code	Function	Confirmation	Remarks
No entry	Present condition is not changed.	0	The EPS changes the output voltage when it confirms the entered value with the beep sound. 1 unit= about AC 7-10V, Range of increase/decrease= Default setting +2 or -1
Press once	Reduce by 1 scale	1	
Press twice	Default setting	2	
Press 3 times	Increase by 1 unit	3	
Press 4 times	Increase by 2 units	4	

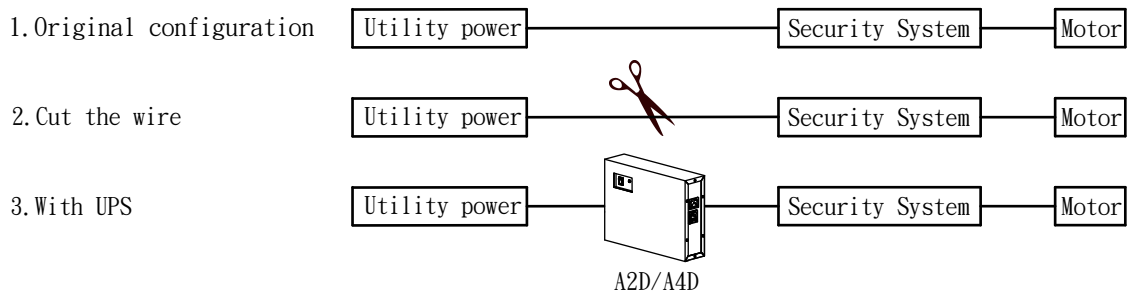
A2D/A4D Installation Schematic (1)



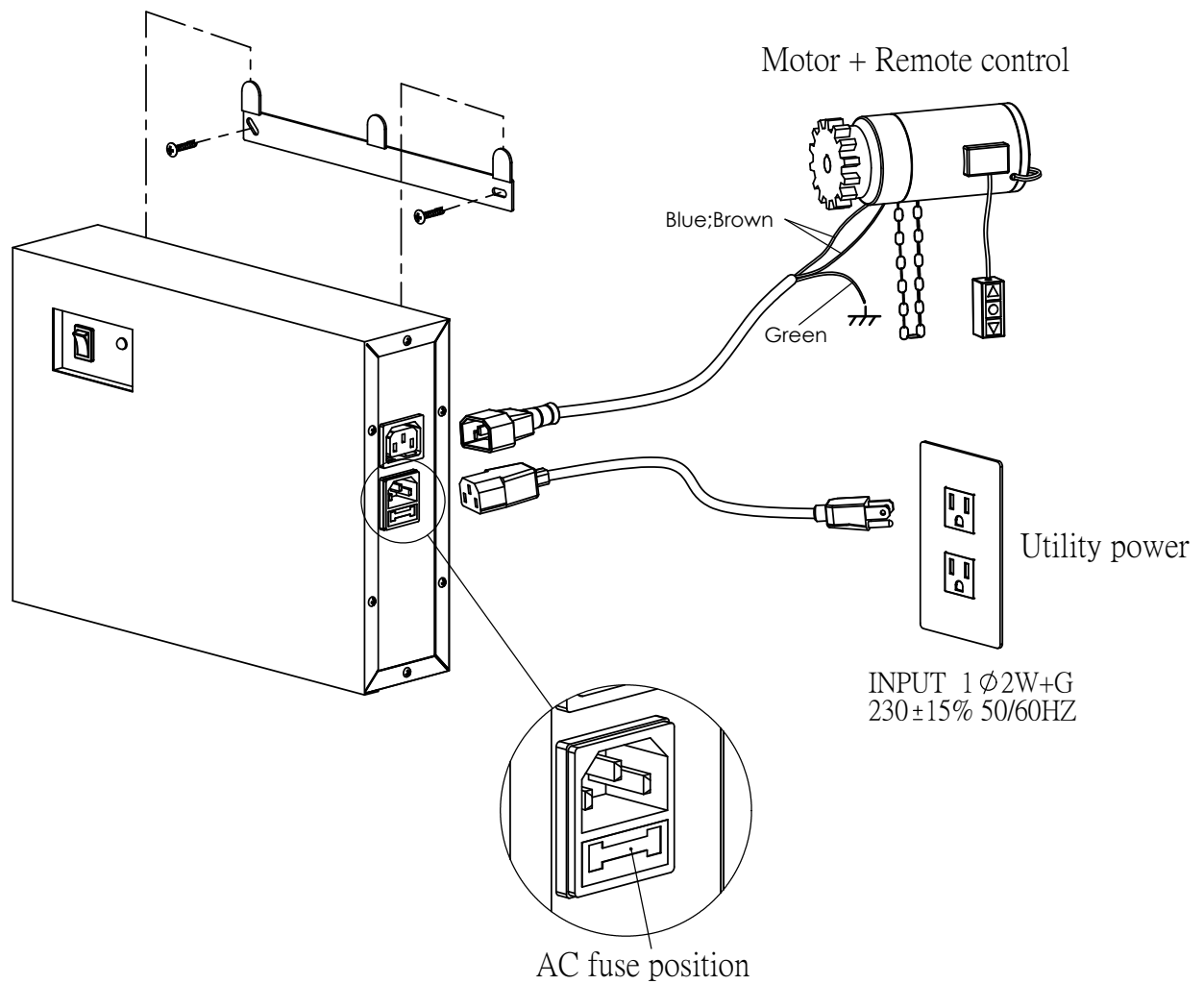
Power supply Configuration of A2D/A4D



Power supply Configuration of A2D/A4D (With Security System)



A2D/A4D Installation Schematic (2)



GUARANTEE LETTER

NAME		PHONE	
ADDRESS			
PURCHASE DATE			
DIATRIBUTOR		PHONE	
ADDRESS	(shop seal)		

We are very grateful for your patronage. With immediate effect, we are offering two years warranty for machine and one year warranty for battery from the installation date marked on the label (Please be sure to mark the date). We can also determine how long the machine has been used from the computer recorder attached to the machine. Please show this guarantee letter to our technician when he comes so as to enjoy your right.

Model:

☐ built-in A2D battery ☐ built-in A4D battery

EPS S/N: _____



GUARANTEE LETTER

NAME		PHONE	
ADDRESS			
PURCHASE DATE			
DIATRIBUTOR		PHONE	
ADDRESS	(shop seal)		

We are very grateful for your patronage. With immediate effect, we are offering two years warranty for machine and one year warranty for battery from the installation date marked on the label (Please be sure to mark the date). We can also determine how long the machine has been used from the computer recorder attached to the machine. Please show this guarantee letter to our technician when he comes so as to enjoy your right.

Model:

☐ built-in A2D battery ☐ built-in A4D battery

EPS S/N: _____