

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

MODEL NO: U15QT-7284A/7284B

PART NO : ILPU15QT-7284AC1-XW-1-V

MODEL NAME: 15W magnetic wireless charging mobile power supply

REVISION: A1

DATE: _____

APPROVED SIGNATURES		



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Model No.	U15QT-7284A/7284B	Model Name	15W magnetic wireless charging mobile power supply
Part No.	ILPU15QT-7284AC1-XW-1-V	Size	L98 ※ W63 ※ T15mm

Product Specification

產品規格書

Product name/產品名稱: 15W magnetic wireless charging mobile power supply

Model No/ 產品型號 : U15QT-7284A/7284B

File number /文件編號: _____

Revision/版本號 : A1

Date/日期 : _____



APPROVED BY 批准	CHECKED BY 審核	DESIGNED BY 制作

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Reversion History / 更新記錄:

Revision	Date	Changes
A0	2023-12-21	初版發行
A1	2024-4-10	新增 2.1 Product accessories 产品配件

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1. Scope/概述



U15QT-7284A/7284B is a 5000MAH mobile power supply with metal folding bracket 15W wireless charging function, using Type-C input/output, maximum output up to 18W, you can charge the built-in lithium battery, can also be charged externally, can be fully compatible with Apple magnetic series mobile phone wireless charging.

U15QT-7284A/7284B 產品是一款帶金屬折疊支架 15W 無線充功能 5000MAH 移動電源，採用 Type-C 輸入/輸出,最大輸出高達 18W，即可對內置鋰電池充電，也可以對外進行充電，可完全相容蘋果磁吸系列手機無線充電。

2. Product Characteristic / 產品特點

- ◆ Type-C Input/Output
Type-C 輸入/輸出
- ◆ Metal foldable stand design: place saving and support vertically & horizontally wireless charging.
金屬折疊支架設計：節省空間，支援橫放&豎放無線充電。
- ◆ 7.8N Strong magnetic attraction: built in strong magnets to hold your phone firmly.
7.8N 超強磁力：內置強力磁鐵，牢牢吸附手機。
- ◆ 5000mAh lithium polymer battery: Extended service life
5000mAh 的聚合物鋰電池:延長使用時間
- ◆ Tiny body power bank : lightweight and compact, easy to going.
精巧設計：小巧輕薄，方便攜帶

2.1 Product accessories 產品配件

料号 Part number	产品叙述 Description	图片 Photo	备注 Remarks
UNIPA-2184	PD 20W Adapter		
UNICB-7249	1M Type C to C Cable		
UNITD-7312	Plating Black Metal Ring		

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3. Specification parameter / 規格參數

- ◆Name: Mobile power supply
名稱:移動電源
- ◆Battery: Polymer lithium battery 955565 3.7V
電池: 聚合物鋰電池 955565 3.7V
- ◆Battery capacity: 5000mAH (18.5W)
電池容量: 5000mAH (18.5W)
- ◆Battery to TX coil conversion efficiency: $\geq 60\%$
電池到 TX 線圈轉換效率: $\geq 60\%$
- ◆Battery to Type-C output conversion efficiency: $\geq 80\%$
電池到 Type-C 輸出口轉換效率: $\geq 80\%$
- ◆Type-C Input/輸入:
DC5V==2.5A; QC9V==1.65A; PD12V==1.5A
- ◆Type-C exportation/輸出:
5V==3.0A; 9V==2.0A; 12V==1.5A
- ◆Wireless charge output/無線充輸出:
5W/7.5W/10W/15W
- ◆Fill and place/邊充邊放:
5V==3.0A

4. Key switch function 按鍵開關功能

Press 0.5s to turn on the output power display; No load, standby ≤ 5 minutes after the automatic shutdown; Press the power off button twice

短按 0.5S 打開輸出顯示電量；無負載後，待機 ≤ 5 分鐘後自動關機；連續按兩次關機

5. Indicator light display function /指示燈顯示功能

5.1.Battery Charge LED light indicator status 充電時燈的狀態

Battery status 電池狀態	from left to right 順序從左到右			
	LED1	LED2	LED3	LED4
= 100%	ON	ON	ON	ON
$\geq 75\%$	ON	ON	Flash	
$\geq 50\%$	ON	Flash		
0%-25%	Flash			

5.2.Battery discharge LED light indicator status 放電時燈的狀態

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Battery status 電池狀態	from left to right 順序從左到右			
	LED1	LED2	LED3	LED4
≤100%	ON	ON	ON	Flash
≤75%	ON	ON	Flash	
≤50%	ON	Flash		
≤25%	Flash			

5.3. Wireless charging indicator shows: standby does not light up, normal work blue light is usually high. The abnormal red light is blinking.

無線充電指示燈顯示：待機不亮燈，正常工作藍燈常高。異常紅燈閃爍。

6. Safety Control/安全機制

6.1. Short Circuit Protection/短路保護

Type-C output: When the output is short-circuited, the battery indicator is off and the output stops. Normal operation will resume when the reception is removed or the short circuit is removed.

Type-C 輸出：在輸出短路的情況下，電池指示燈滅並停止輸出。當移除接收或者短路解除時，將恢復正常工作。

Charge line charge: In the case of a short circuit in the output of the receiving end, the red indicator light at the transmitting end flashes and stops the output. When the receiver is removed or the short circuit is removed, the transmitter will resume normal operation.

充線充：在接收端輸出短路的情況下，發射端紅色指示燈閃亮並停止輸出。當移除接收或者短路解除時，發射端將恢復正常工作。

6.2. Over Current Protection/過流保護

When the receiver load exceeds the rated value(110% - 130%), the overcurrent protection is triggered and the transmitter stops working. When removed the receiver, the transmitter will resume normal operation.

當接收器負載 > 額定值的 110% - 130% 時，觸發過電流保護，發射端停止工作，當接收器被移除時，發射端將恢復正常工作。

6.3. Overvoltage Protection/過壓保護

The product would stop working when the input voltage exceeds the rated value (15V). The Product would be restarted working when the voltage returns to the set value range.

P/S: The input voltage shall not exceed 16V in case damage the product.

輸入端超過設定過壓電壓值 15V 時，發射端停止工作。電壓恢復設定值範圍時重新啟動工作。

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注意：輸入電壓不可以超過 16V，以防損壞本產品。

6.4. Foreign Object Detect (FOD) (1 RMB coin as the standard.)

異物檢測（以一元 RMB 硬幣為標準。）

- 6.4.1 When placing the coin onto the center of the product under no-load condition, the transmitter detected foreign object and reports an error, then stops working. Removes the foreign object to resume normal operation .
空載時放置產品中心，發射端檢測到異物並報錯，停止工作，移除異物可恢復正常工作。

6.5. Over-temperature Protection/過溫保護

6.5.1. Wireless charging over-temperature protection/無線充電過溫保護

PCBA patch NTC temperature protection set value is $85\pm 5^{\circ}\text{C}$, when the temperature exceeds the set value, the transmitter stop working, re-place the receiving or cooling to $55\text{-}60^{\circ}\text{C}$, the transmitter will resume normal work

PCBA 貼片 NTC 溫度保護設定值為 $85\pm 5^{\circ}\text{C}$ ，當溫度超過設定值，發射端停止工作，重新放置接收或者降溫至 $55\text{-}60^{\circ}\text{C}$ 時，發射器恢復正常工作

6.5.2. Lithium battery over-temperature protection /鋰電池過溫保護

In charge status:

It stops charging the battery when the battery temperature $\leq -10^{\circ}\text{C}$.

The charging current is reduced by half when the battery temperature is $\geq 45^{\circ}\text{C}$.

It stops charging the battery when the battery temperature $\geq 55^{\circ}\text{C}$.

在充電狀態下：

NTC 檢測到電池溫度 $\leq -10^{\circ}\text{C}$ ，停止對電池充電；

NTC 檢測到電池溫度 $\geq 45^{\circ}\text{C}$ ，充電電流減小一半；

NTC 檢測到電池溫度 $\geq 55^{\circ}\text{C}$ ，停止對電池充電；

In discharge status:

It stops discharge externally when the battery temperature $\leq -20^{\circ}\text{C}$.

It stops discharge externally when the battery temperature $\geq 55^{\circ}\text{C}$.

在放電狀態下：

NTC 檢測到電池溫度 $\leq -20^{\circ}\text{C}$ ，停止對對外放電；

NTC 檢測到電池溫度 $\geq 55^{\circ}\text{C}$ ，停止對對外放電；

6.5.3 Average Working Time Without Failure 平均工作無故障時間

Working for 20,000 hours, the average failure rate is less than 0.5% du at 25°C environment temperature.

工作 2 萬小時，在 25°C 環境下平均失效率小於 0.5%

6.5.3 Factory battery capacity 出廠的電池電量：

The battery reaches 70% capacity

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電池達總電量 70%

7. Reliability Requirements / 可靠性要求

7.1. Reliability Test/可靠性測試

Please refer to Link Com's reliability standard and reliability test Report.

請參考聯寶標準《可靠性測試規範》與《可靠性測試報告》

8. Environment Requirement / 環境要求

8.1 Operating Temperature and Relative Humidity

操作溫度和相對濕度 5°C-25°C / RH40~60%

8.2 Storage Temperature and Relative Humidity

儲存溫度和相對濕度 0°C-35°C / RH20~80%

8.2.1 Avoid direct exposure to the storage environment, and do a good temperature and humidity control, room temperature should be controlled at 5°C-25°C, relative humidity RH40~ 60%. In order to maintain good functionality of the product, please observe the following storage conditions.

儲存環境應避免產品受陽光直接照射，並作好溫濕度管控，室溫宜控制在 5°C-25°C / RH40~60%。為使產品維持良好之功能性，請確實遵守以下保存條件

8.2.2 Keep away from high humidity, salt spray or oil spray. 儲存需避開高濕，鹽霧或油霧之環境

When storing, the storage environment temperature should be avoided too drastic, and the humidity should be avoided too high or too low. High humidity and large temperature difference tend to cause water Vapor condensation phenomenon, too low humidity easily cause the high electrostatic strength. Therefore, humidity will cause the electron ionization, and eventually cause the product functional abnormalities. 儲存時應避免儲存環境溫度變化過於激烈，同時避免濕度過高或過低。濕度過高和溫差過大容易導致水蒸氣凝結現象，濕度過低容易導致靜電強度過高。故濕度會造成電子遊離，最終導致產品功能性異常。

9. Execution Standards/執行標準

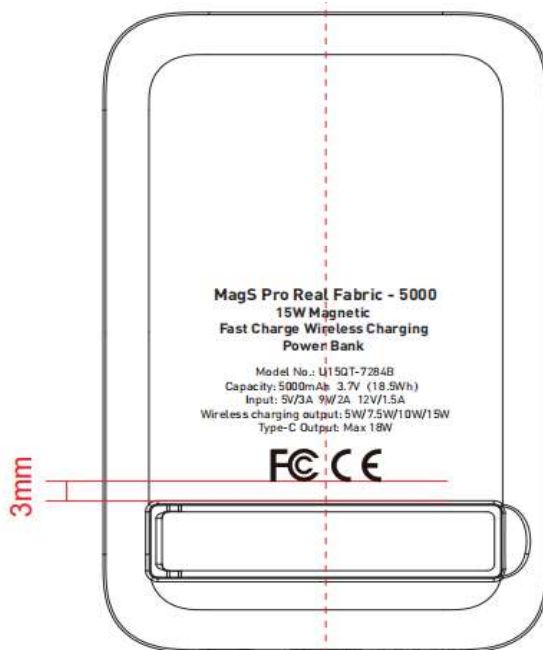
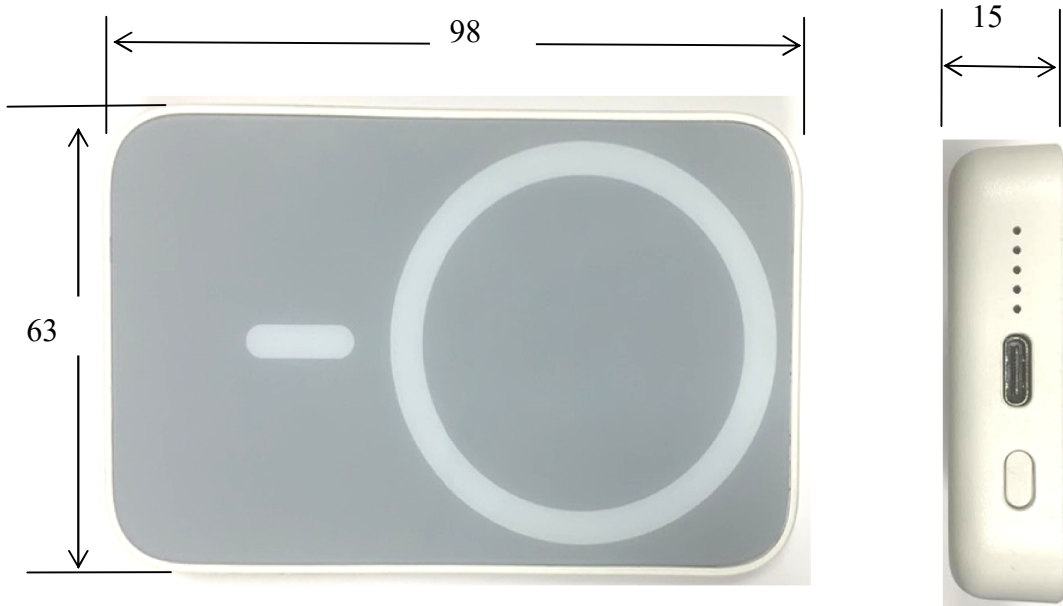
9.1. EMC Standards 電磁相容標準

EN55032	EN55035
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10. Photo of Product/產品照片

Size :L98 ※ W63 ※ T15mm



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11. Attentions 使用注意事項

- ◆ Please use the correct rated AC Adapter, to ensure the normal function.
請使用配置的正确規格火牛，保證功能正常；

12. Weight / 重量

150^{±5}g

13. Statement / 聲明

All rights reserved by LinkCom Manufacturing Co., Ltd. for all of this specification for approval.
About warranty, please refer to LinkCom company warranty policy.