

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

MODEL NO. : _____ MFIQ2-7485A2 _____

PART NO. : _____

MODEL NAME: _____ Qi2+Apple Watch Quick Charge 2-in-1 Wireless Charge _____

REVISION: _____ A1 _____

DATE: _____

APPROVED SIGNATURES

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Model No.	MFIQ2-7485A2	Model Name	Qi2+Apple Watch Quick Charge 2-in-1 Wireless Charge
Part No.		Size	60.27*60.27*22mm

Product Specification

產品規格書

Product name/產品名稱:

Qi2+蘋果手錶快充二合一無線充

Model No/ 產品型號:

MFIQ2-7485A2

File number /文件編號:

Revision/版本號:

A1

Date/日期:



APPROVED BY 批准	CHECKED BY 審核	DESIGNED BY 製作

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Reversion History / 更新記錄

Revision	Date	Changes
A0	2023-11-30	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

MFIQ2-7485A2 is a two in one product that combines the latest Qi2 wireless charging and Apple Watch wireless fast charging. The product supports a PD adapter 9V/3A power supply; The latest Qi2 wireless charging can support the wireless fast charging function of the magnetic suction series mobile phones, which is in line with WPC_ Qi 2.0 certification standard.

MFIQ2-7485A2是最新款Qi2無線充+蘋果手錶無線快充的二合一產品，該產品支援PD適配器9V/3A供電；最新款Qi2無線充可支援磁吸系列手機無線快充功能，符合WPC_Qi-2.0認證標準。

2. Product Characteristic/產品特點

- ◆ Complies with the C222 standard size of the original Apple module.
符合原廠蘋果模組 C222 標準尺寸
- ◆ Supports fast wireless charging of watches.
支持手錶快速無線充電
- ◆ Qi2.0 certification standard.
符合 Qi2.0 認證標準
- ◆ TYPE_C Jack
TYPE_C 插頭

2.1 Product accessories 产品配件

料号 Part number	产品叙述 Description	图片 Photo	备注 Remarks
UNIPA-2192	PD 30W Adapter		
UNICB-7249	1M Type C to C Cable		
UNITD-7312	Plating Black Metal Ring		

3. Performance Parameter/性能參數

3.0	Power input protocol/電源輸入協定	PD 2.0/3.0
3.1	Wireless charging protocol/無線充協議	BPP + MPP (Qi 2.0)
3.2	Input power /輸入功率	9V/2.7A
3.3	Wireless charging output power/無線充電功率輸出	MPP-15W/ BPP-5W/7.5W apple fast charge

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3.4	Watch wireless charging output/手錶無線充輸出	3W Max
3.5	Standby Power for MPP module /待機功率	< 350mW
3.6	Power Transfer Efficiency/轉換效率	75%±5%
3.7	Operating frequency / 工作頻率	BPP mode:128KHz MPP mode:360KHz
3.8	Protections / 保護	OVP /UVP /OCP /OTP
3.9	Input OVP/輸入過壓保護	9V input:Trigger:10V/ recover:9.5V 5V input:Trigger:5.6V/ recover:5.4V
3.10	Input UVP/輸入欠壓保護	9V input:Trigger:7.5V/ recover:8.5V 5V input:Trigger:4.2V/ recover:4.5V
3.11	Over Temperature Protection/過溫保護	Trigger:72°C/ recover:55°C
3.12	FOD function/異物檢測功能	Q test(pre-power transfer)/Power Transfer FOD
3.13	Magnetism for MPP module / MPP 模組磁力	900gf
3.14	Indicator light function/指示燈功能	Reserved (without indicator lights) 有預留(無指示燈)

4. Reliability Requirements / 可靠性要求

For other tests, please refer to Reliability Test Specification and Reliability Test Report.

其他測試請參考《可靠性測試規範》與《可靠性測試報告》

5. Environment Requirement / 環境要求

5.1. Operating Temperature and Relative Humidity 操作溫度和相對濕度

0°C -35°C ; 20%RH to 80%RH

5.2. Storage Temperature and Relative Humidity 儲存溫度和相對濕度

-20°C to +40°C ; 10%RH to 90%RH

6. Execution Standards/執行標準

6.1. EMC Standards 電磁相容標準

EN55032	EN55035
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7. Attentions 使用注意事項

7.1 Please use the correctly configured PD adapter and the output power is higher than 30W to ensure proper functionality.

請使用配置的正确規格 PD 適配器，建議輸出功率大於 30W，確保保證功能正常

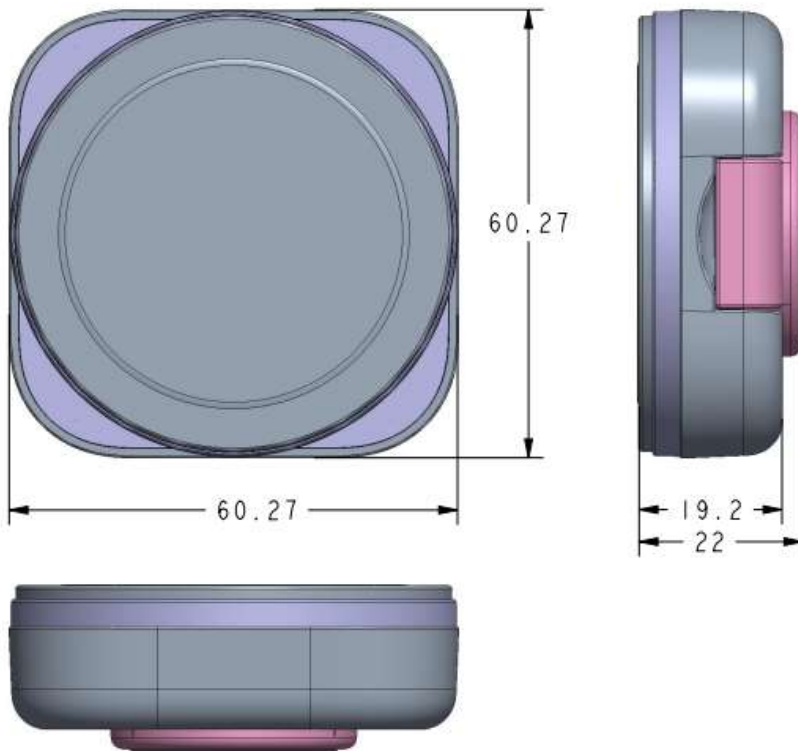
7.2 MPP TX module can adjust the maximum output power according to the capability of the PSU as below

MPP 模組會根據適配器不同輸出能力調整輸出功率，適配器輸出規格對應 MPP 模組表格如下：

PSU Type	Output power
DC >=20W (9V/2.22A)	BPP5W/AFC7.5W/MPP15W
DC >=12W (5V/2.4A)	BPP5W/AFC7.5W/MPP7.5W
QC 18W (9V/2A)	BPP5W/AFC7.5W/MPP10W
QC 15W (9V/1.67A)	BPP5W/AFC7.5W/MPP10W
PD >=20W (9V/2.22A)	BPP5W/AFC7.5W/MPP15W
PD 18W (9V/2A)	BPP5W/AFC7.5W/MPP12W
PD 15W (5V/3A)	BPP5W/AFC7.5W/MPP7.5W
BC1.2 12W	BPP5W/AFC7.5W/MPP7.5W

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8. Size尺寸: 60.27*60.27*22mm(±1.0mm)



9. Weight 重量

65±5g

10. 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.
