

WIRELESS CHARGER MODULE MANUAL

Release version

V1.2

File number

EW-RD-20191205001

Release date

2019.12.05

Pages

2 pages

● Product information

P/N: M-Charge-01 5W

Product Name: Wireless charger 5W

Manufacturer: Electronic Way Technology Co., Ltd, No.268, South Jiguang Rd, Shipu town, Kunshan, Jiangsu, P.R.China, 215343

Applicable standard: Qi-BPP/AFC/iPhone

Supported wireless charging protocols: QC/ AFC/ PD/PPDE

● Electrical parameters

Input Voltage range: 11.5V-12.5V

Maximum input Current: 500mA

Maximum input Power: 6W

Output characteristics:

Output voltage range: 5V+-

Output power: 5W

Operating frequency range: 111-200kHz

Efficiency: Typical efficiency value: $\geq 75\%$ @ full load

Standby power consumption: meet ERP Lot 6 requirements $\leq 0.5W$.

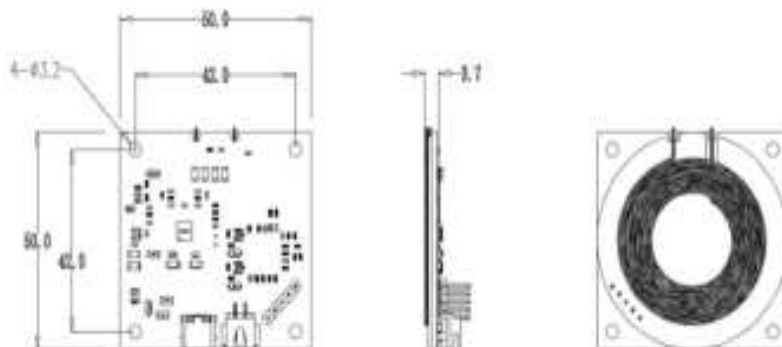
● Wireless charging technical details

Compatible protocol: Qi-BPP/AFC/iPhone

Coil parameters: A11-(10 turns), single coil, inductance value: 6.3UH

Foreign body detection(FOD): Detection principle and sensitivity (metal foreign body detection threshold $\leq 0.5W$).)

Product size: Product outline and key dimensions (50×50×5MM).



● Safety and testing requirements

Temperature protection: Higher than 80 ° C, then enters the protection state.

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Current protection: Higher than 2.3A, then enters the protected state.

Operating temperature range: 0°C~40°C

Humidity range: 10%~90% RH

Product picture:



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.