

DC127

Fast-Charging Cable — User Manual

Thank you again for purchasing this product.

Please read this instruction manual before use.

1. Product Overview

The DC127 is a four-in-one transmitter specifically designed for magnetic wireless reception requirements. It meets the WPC 1.2.4 standard, with stable performance, low standby power consumption, and other features. It uses a unique PWM modulation mode, significantly improving conversion efficiency. It easily provides the convenience of wireless technology with high output efficiency. By comparing the built-in transmission power with the wireless receiving power, it can more accurately control energy loss during transmission. The chip integrates FSK/ASK decoding, overvoltage and overcurrent protection, and can charge all QI wireless charging-supported mobile phones, as well as Apple wireless charging headphones, Apple wireless charging watches, and Samsung wireless charging watches

2. Product Features.

- Supports 5 - 9V voltage input;
- Supports mobile phone power output of 5W, 7.5W, 10W, 15W (MAX);
- The headphones have a power output of 5W (MAX); the watch has a power output of 2.5W (MAX).
- Input supports multiple fast charging protocols such as PD2.0 and BC1.2;
- Supports half-bridge and full-bridge output modes;
- Built-in hardware protection for overvoltage, undervoltage, and overtemperature.
- Internal integrated current-sensing differential amplifier with hardware overcurrent protection;
- Built-in ASK demodulation module;
- Supports static and dynamic FOD detection;
- Typical static power consumption < 60mA.

3. Product Overview

3.1 Electrical Parameters	
Project	Parameter
Input interface	TypeC
Power supply voltage	QC、PD 5V-9V/3A MAX
Wireless distance (between the transmitting coil and receiving coil)	1mm-5mm(max)
Operating frequency	Mobile Phone/Headphones: 115-205KHz; Apple Watch: 300-350KHz.
Output Power	Mobile phone: 5W、7.5W、10W、15W (MAX) Headphones: 5W (MAX) Watch: 2.5W (MAX)
Coil Type	All
Conversion efficiency	85% (depending on reception coupling match)
Storage Humidity Range	<95%RH
Safety protection function	Overcurrent protection, undervoltage protection Overvoltage protection, overtemperature protection
Compatibility	Compatible with QI wireless receiver products

3.2 Electrical Parameters

Parameter	Symbol	Value	unit
Input voltage range	vcC	5~9	V
Operating temperature range	TA	0~35	℃
Storage temperature range	Tstg	-20~70	℃
Storage Humidity Range	Tstr	<95%	RH
Power supply current	I _{max}	3	A
Human body model	ESD	4	KV

FCC Warning Statement
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.
FCC Radiation Exposure Statement
The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.
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.

4. Size Specifications

1. Product dimensions: 59.8*9.5mm;
2. Shell material: aluminum alloy;
3. Shell color: gold, red, blue, dark blue, gunmetal, black;
4. Interface type: Type-C

5. Packaging and Accessories

Wireless charger: X1
CtoC data cable: X1
Manual: X1

6. Use Cases

Closed magnetic field automatic adsorption

Does not fall off

Can charge with the case on



7. Precautions

- Do not use this product in a humid environment, as contact with water may cause malfunction or damage.
- Do not hit or drop this product, as repeated impacts may cause internal damage.
- Do not disassemble, modify, or repair this product by yourself.
- Do not connect this product to a voltage higher than specified.
- Do not throw this product into fire to avoid the risk of explosion.
- Do not use this product with wet or damp hands.
- Store the product in a cool, dry place, out of reach of children.

