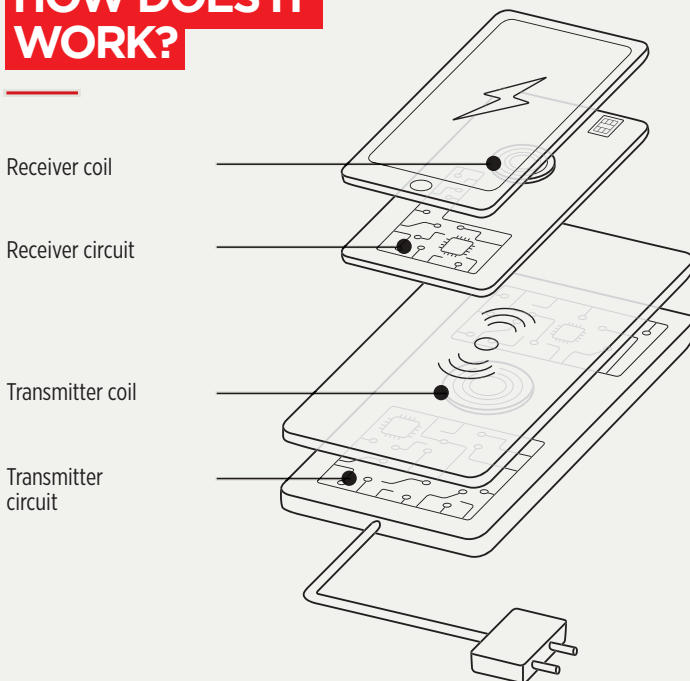


# WIRELESS CHARGING



As of 2017 wireless charging is the universal standard supported by all common available phones in the market produced both for IOS as for Android. Wireless charging allows users to charge their mobile device wherever they are without having to take out their charging cable. This way of charging is easy, efficient and the way we will charge in the years to come.

## HOW DOES IT WORK?



1

Mains voltage is converted into high frequency alternating current (AC)

4

The magnetic field generates current within the receiver coil of the device.

2

The alternating current is sent to the transmitter coil by the transmitter circuit.

5

Current flowing within the receiver coil is converted into direct current (DC) by the receiver circuit, thus charging the battery of the device.

3

Alternating current flowing within the transmitter coil creates a magnetic field which extends to the receiver coil (when within a specified distance.)

## FAST CHARGING VS. NORMAL CHARGING

In the market there are various types of chargers. The main difference is the output indicated in W. The common wireless outputs are 5W, 10W and 15W. Most mobile devices support 5W charging but the newest generation support 7.5/10W. The higher the W the faster your phone will charge. When using a fast charger your phone will indicate on the screen it's enabled for fast charging.

### Fast charge is supported by:

- Samsung Galaxy S7 & S7 Edge
- Samsung Galaxy S6, Galaxy S6 Edge & Galaxy S6 Edge Plus
- Samsung Galaxy Note 5
- LG G4
- Nexus 6
- Moto Droid Turbo
- Nexus 5/7(2013)/4
- Nokia Lumia 1020/920/928
- iPhone X

Fast



↑ 1.4 times faster

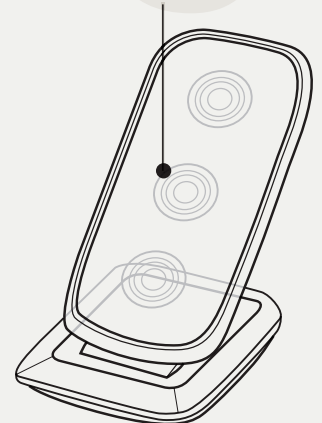
Normal



## 3 COIL CHARGING

Adding extra charging coils in a charger makes it even more convenient to charge your mobile device as it will add an extra charging area to the charger. The charger will make the induction very easy and efficient with your mobile device making it an even better wireless charging experience.

3 transmitter coils



Wireless 5W triple coil charger

# WIRELESS CHARGING: SAFETY FIRST



## ALL OUR CHARGERS HAVE:



### Overcharge protection

Overcharge protection makes sure your device is only charged when the device is requesting energy. When the battery is fully charged our chargers will immediately stop charging.



### Over-current protection

Makes sure that your device only received its optimal charging current. In case of a power surge or even lightning strike the protection will make sure you and your mobile device stay safe.



### Short circuit protection

Makes sure that in case of a short circuit the device is shut down.



### A standby current of maximum 0.3W when not in use

All our wireless chargers have a low power consumption when not in use. Low quality chargers consume up to twice as much energy when not in use, harming your energy bill and even more important, our environment.



### Foreign object detection

All our wireless chargers have built-in FOD (foreign object detection) to make sure that the wireless charger will only charge your mobile device. Bad quality chargers are unable to detect other metal objects like pens or coins. This could lead to permanent damage to the wireless chargers, the object and potentially the user.



### Temperature control

All our wireless chargers have temperature control built in to make sure the device does not overheat while charging.



### Durable A grade components

All our chargers are made with A-grade components. The casing is made out of virgin materials to meet all European standards.

The PCBA is designed to ensure you a smooth and worry free wireless charging experience. Not only do these chargers have a better quality and safety, they also last longer ensuring a much longer usage of the item.



### CE

All our wireless chargers are tested by official institutes for CE and therefore comply with the strict regulations set within the EU.

### RoHS

All our wireless chargers are tested by official institutes to check they are manufactured according to the ROHS regulation and avoid items with high contents of chemicals entering the EU. We perform additional tests on each production for extra security.

## FREQUENTLY ASKED QUESTIONS

1

### What is wireless charging?

Wireless charging is transferring power by electromagnetic induction. Traditional charging requires the energy to travel through a cable. Wireless chargers receive their power from an electromagnetic field. All you need is a charging base and a phone that is compatible with wireless charging.

3

### Does the charger get hot?

Like all other (power) chargers, wireless chargers get warm when they charge. The better the quality, the less energy will be lost (this creates the warmth). Our chargers have advanced chips inside which protect your charger from overheating.

5

### Is overcharging possible?

It is perfectly safe to keep your device on the charger even when your phone is fully charged. Via trickle charge (small amount of power will be charged when your phone drops below 100%) your phone will be safely charged.

6

### How does my charger know which voltage my device needs?

Smart chips perfectly recognize the precise amount of voltage needed for specific items. Higher voltage only will be switched on when a higher capacity is recognized.

2

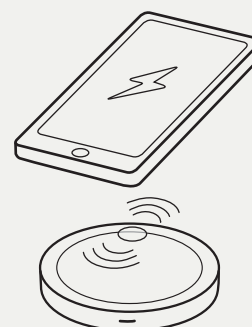
### Wireless charging is it safe?

To charge a battery in your mobile device, the coil in your charging station needs to be "in contact" with the receiver coil in your device. When the coils are not in contact with each other there is no permanent power transmission. Actually the whole process emits less radiation than when it is connected to a wireless mobile network.

4

### Is my wireless charger waterproof or water resistant?

Water and electricity is a bad combination. So avoid get your wireless charger wet. Don't put a wet phone on your charger.



## FREQUENTLY ASKED QUESTIONS



7

### How does my charger react on power surges?

Wireless chargers are connected to a socket, which means that it can be affected by a lightning strike or other peak of power supply. However the wireless charger cannot transfer these increased voltages to your device. Actually charging with your wireless charger is safer than charging with a cable and socket.

9

### Is wireless charging faster or slower than cabled charging?

That depends on what wireless charger is being used and what the charging speed is of the cabled charger. In general cabled chargers are still faster as they can transfer more power in a shorter period of time. Most phones support 5W wireless charging which equals 1A per hour. The newest generation Samsung S8 and iPhone X support 7.5W wireless charging which equals 1.5A per hour.

11

### Is it normal that the phone or adapter feels a little warm when charging on a wireless charger?

It is perfectly normal for your phone to get slightly warm when charging wirelessly this is nothing to worry about. The phone will get slightly warmer than with conventional charging because wireless charging uses more energy to generate the power transfer from charger to phone.

12

### How safe is wireless charging?

All our wireless chargers meet the requirements on product safety. We only use its own high end standard regarding product safety for wireless chargers. The chargers are also tested for EMI/EMC which is a European standard for electromagnetic interference.

13

### Why do I need to place the phone on the right position to charge?

The wireless charging connection is made between electromagnetic coils that are both in the charging base as in your mobile phone. The coil of your mobile phone needs to be close to the coil in the charger in order to establish the connection.

8

### Why is wireless charging so convenient?

Wireless charging is supported in all new phones including the latest generation iPhones. Both Apple as Android phones use the same wireless charging standard. This brings great opportunity to many places to offer users wireless charging wherever they go.

10

### Which phones are compatible with wireless charging?

Below a list of popular models that are compatible with wireless charging. Please note that all new phones that are released also come with the wireless charging option.

## WIRELESS CHARGING IS SUPPORTED BY:



- iPhone X
- iPhone 8
- iPhone 8 Plus



- LG G2
- LG G3
- LG G6
- LG G6 Plus
- LG Lucid 2
- LG Lucid 3
- LG Optimus F5
- LG Optimus G Pro
- LG Optimus It L-05E
- LG Spectrum 2
- LG V30
- LG V30 Plus
- LG Vu 2
- LG Vu 3



- Samsung Galaxy S6
- Samsung Galaxy S6 Active
- Samsung Galaxy S6 Edge
- Samsung Galaxy S6 Edge Plus
- Samsung Galaxy S7
- Samsung Galaxy S7 Active
- Samsung Galaxy S7 Edge
- Samsung Galaxy S8
- Samsung Galaxy S8 Active
- Samsung Galaxy S8 Plus
- Samsung Galaxy Note 8
- Samsung Leader 8
- Samsung W2016
- Samsung S9



- Sony Xperia Z3V
- Sony Xperia Z4V



- HTC Droid DNA
- HTC Windows Phone 8X



- Microsoft Lumia 950
- Microsoft Lumia 950 Dual Sim
- Microsoft Lumia 950 XL
- Microsoft Lumia 950 XL Dual Sim