

ALFACHARGE WIRELESS CHARGER AL4-J

MAINS WIRELESS CHARGER MODULE

ACCESSIBLE WIRELESS CHARGERS FOR COMMERCIAL INSTALLATIONS

Wireless charging is increasingly becoming the preferred method of maintaining battery power in mobile devices, with most of the latest designs from the major manufacturers including wireless charging as standard.

The aesthetically pleasing design of the AL4-J wireless charger can be easily installed into furniture such as desks, bedside tables, media benches and counter tops, making it ideal for tough, publicly accessible areas where different users with a variety of mobile devices come and go. The modules are water resistant to IP65 and can withstand any spills and constant use. The high friction charging surface encourages the phone to stay in place. The installation couldn't be simpler, insert the unit through an Ø80.0mm hole, secure from below and connect to power with the supplied transformer.

The wireless receiver of the charging unit will automatically detect the presence of suitably enabled mobile devices and will typically charge through a case up to 3.0mm thick, with a Tx-Range of 5mm.



THE RANGE

The Alfacharge range has been designed to withstand the challenging demands of commercially used environments and is CE marked. The casings are made from VO-rated (self-extinguishing) high impact polycarbonate and the PCB is populated by computer-controlled SMT for maximum accuracy and durability.

Alfatronix wireless charging module AL4-J

Mobile phones with cases up to 3.0mm thick will normally charge successfully.

Charging coil centre.

Table top min. 19.5mm max. 50.0mm

Cover plate grips and secures wires into position.

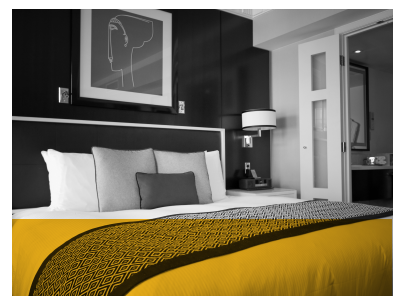
Power supply plug.

The wireless charging unit can be easily installed through an Ø80.0mm hole in any flat surface. Cables are secured by the retaining plate completing the installation.



Designed for integration into furniture.

- CE marked.
- Phone communicates every millisecond to establish correct charge.
- Unit rated to IP65
- Foreign object detection & activation.
- Overcharge and power surge protected
- LED to confirm correct operation.
- Customisable, to include corporate logo and reflect corporate colours.



The AL4-J is ideal for retrofit hotel room installations and offices.

WARRANTY

The AL4 Series of wireless chargers are manufactured using rugged components to provide years of service in demanding commercial environments and are covered by a three year return to base warranty.

ALFACHARGE PART SELECTION

| Part Number | Description | Dimensions (mm) | Weight |
|-------------|-----------------------------|--------------------------|--------|
| AL4-J | Integrated wireless charger | Ø98.0 x 15.3; Hole Ø80.0 | 160g |

TECHNICAL DATA

| | |
|--------------------------------------|--|
| Input voltage range | 5Vdc using main 230Vac input power adaptor (supplied) |
| Output power | Nominal 5W |
| Application | Charging of wireless enabled devices |
| Tx-Range | 5mm |
| Off load current (quiescent current) | 9mA |
| Power conversion efficiency | 50% - 60% |
| Operating temperature | -25°C to +55°C |
| Storage temperature | -25°C to +100°C |
| Operating humidity | 95% max., non-condensing |
| Casework | Grey polycarbonate body |
| Connections | Input: Power supply plug Output: Wireless transmission <200kHz |
| Output indicator | LED: Blue - standby, green - charging |
| Mounting method | Enclosure with underside securing plate into Ø80.0mm hole |
| Safe area protection: | Over Current Limited by current sensing circuit |
| | Over heat Limited by temperature sensing circuit |
| | Overvoltage and Undervoltage Limited by sensing circuit |
| | Reverse Polarity Limited by sensing circuit |
| | Transients Protected by filters and rugged component selection |
| | Catastrophic protection Internal fuse |
| Approvals | 2014/30/EU The general EMC directive 93/68/EEC The CE marking directive |
| Designed to | EN45545, EN61204 & R118 |
| Markings | CE marked |
| IP Rating: | IP65 when installed correctly |

