ALFACHARGE WIRELESS CHARGER AL4
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.

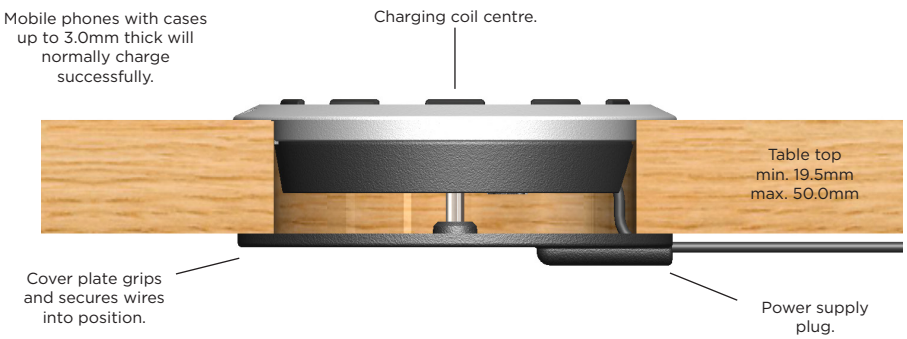
Designed for integration into furniture.

- 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.

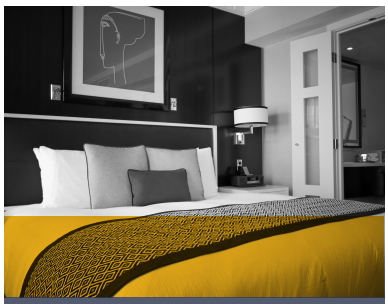
THE RANGE

The Alfacharge range has been designed to withstand the challenging demands of commercially used environments and is CE marked. The casings are made from V0-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



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.



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

WARRANTY

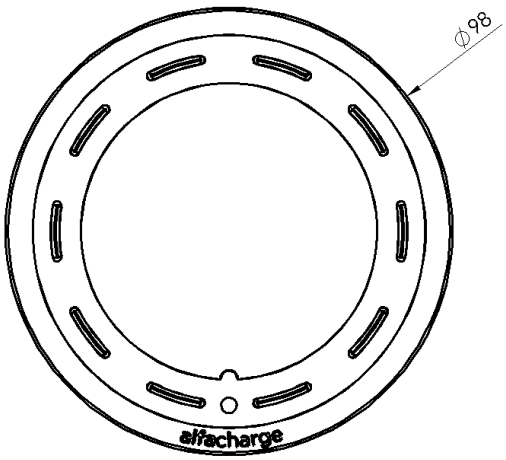
The AL4 Series of wireless chargers are manufactured using rugged components to provide years of service in demanding commercial environments and are covered by a three year return to base warranty.

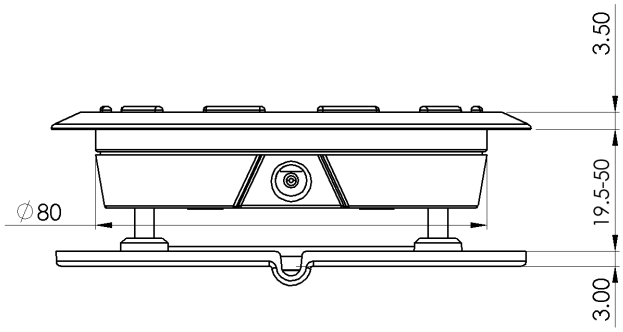
ALFACHARGE PART SELECTION

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	Nominal 5mm
Off load current (quiescent current)	9mA
Power conversion efficiency	50% - 60%
Operating temperature	-25°C to +40°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





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Our policy is one of continuous improvement and we reserve the right to change specifications without prior notice.