



Smart eco charging station for electric vehicles

Designed for use in residential environments

zappi is a Mode 3 charging station, compatible with all electric vehicles that comply with SAE J1772, EN62196 and EN61851 plug-in electric vehicle standards.

zappi works like any regular charging point but has special eco charging modes which will benefit homeowners with grid-tied microgeneration systems, like wind or solar generation. Two special ECO charging modes automatically adjust charging current in response to on-site generation and household power consumption. In FAST charge mode, **zappi** operates like an ordinary EV charging station.



- Available with Type 1 or Type 2 connector
- 3 charging modes: ECO, ECO+ & FAST
- Optimises microgeneration self-consumption
- Works with solar PV or wind turbine systems
- Economy tariff sense input
- Programmable timer function
- Charge and event logging
- Remote control and monitoring add-on option
- Pin-code lock function
- Tap operated display backlight
- Built-in RCD protection
- Integral cable holster
- Supplied with clip-on grid current sensor

Performance

Mounting Location	Indoor or Outdoor (permanent mounting)
Charging Mode	Mode 3 (IEC 61851-1 compliant communication protocol)
Display	Graphical backlit LCD (shows charging status and data)
Charging Current	6A to 32A (variable, limited to 7kW)
Grid Import Power Limiting	2kW to 24kW (optional setting to limit power drawn from the grid)
Charging Profile	3 charging modes: ECO, ECO+ and FAST
Connector Type	Type 1 or Type 2 tethered cable, 5m or 8m
Compliance	LVD 2014/35/EU, EMC 2014/30/EU, EN 61851-1 & 22, EN 62196, CE Certified
Warranty	3 Years

Designed to permit installations compliant with IET Wiring Regulations BS7671:2008+A3 2015, the IET Code of Practice for Electric Vehicle Charging Equipment Installation, BS EN 61851, the Electricity Safety, Quality, and Continuity Regulations 2002 and BS 8300:2009+A1:2010.

Charging Modes

ECO	Charge power is continuously adjusted in response to changes in generation or power consumption elsewhere in the home. Charging will continue until the vehicle is fully charged, even if power is drawn from the grid.
ECO+	Charge power is continuously adjusted in response to changes in generation or power consumption elsewhere in the home. Charging will pause if there is too much imported power, continuing only when there is surplus free power available.
FAST	In this mode, the vehicle will be charged at maximum power. This is just like an ordinary Mode 3 charging point.

Electrical Specifications

Rated Power	7kW
Rated Supply Voltage	230V AC Single Phase (+/- 10%)
Supply Frequency	50Hz
Rated Current	32A max
Standby Power Consumption	1W
Earth Leakage Protection	Integral 30mA RCD (Type A)
Economy Tariff Sense Input	230V AC sensing (2.5kV isolated)
Wireless Interface	868 MHz (proprietary protocol) for wireless sensor and remote monitoring options
Grid Current Sensor	100A max. primary current, 16mm max. cable diameter
Supply Cable Entry	Rear or bottom option

Mechanical Specifications

Enclosure Dimensions	362 x 220 x 78mm
Cord Length	5m or 8m
Number of Outlets	1
Protection Degree	IP65 (weatherproof)
Enclosure Material	ABS 6 & 3mm (UL 94 flame retardant) colours: white RAL 9016 and grey RAL 9006
Operating Temperature	-30°C to +50°C
Fixing Points	In-line vertical mounting holes

Model Variations

MODEL	Connector Type	Cable Length
ZAPPI-32A1P1T05	Type 1 (J1772)	5m
ZAPPI-32A1P1T08	Type 1 (J1772)	8m
ZAPPI-32A1P2T05	Type 2 (EN62196)	5m
ZAPPI-32A1P2T08	Type 2 (EN62196)	8m

Warranty: 3-year on-site parts and labour warranty. Installation must be in compliance with manufacturers installation instructions and all relevant local standards.

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