

# zappi

## Charge your EV with your PV

zappi has 3 charging modes which makes it great for all homeowners. Those with grid-tied microgeneration systems like wind or solar can use the eco setting to save on their energy bills. The charging current is automatically and continually adjusted in response to on-site generation and household power consumption. In FAST charge mode, zappi operates like an ordinary EV charging station.

22kW 3-Phase

EV charging from surplus solar or wind generation

Dynamic load balancing for maximum installation flexibility

Advanced integral safety features



## Zappi Features

- 3 Charging Modes: ECO, ECO+ and FAST
- Optimises Microgeneration Self-consumption
- Works with Solar PV or Wind Turbine Systems
- Economy Tariff Sense Input
- Programmable Timer Function
- Charge & Event Logging
- Pin-code Lock Function
- OZEV (Home/Work Scheme) Approved
- Ethernet Port and built-in WiFi for Connecting to the Internet
- Tap Operated Display Backlight
- Integral Cable Holster (Tethered Version)
- Remote Control & Monitoring
- Supplied with Clip-on Grid Sensor(s)
- Works Alongside Battery Storage System
- Future Proof Installation
- 3 Year Warranty
- Complies with CE and UKCA Requirements

## Charging Modes

<p><b>ECO</b> 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.</p>	<p><b>ECO+</b> 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.</p>	<p><b>FAST</b> In this mode, the vehicle will be charged at maximum power. This is just like an ordinary Mode 3 charging point.</p>
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## Model Variations

Model No.	Rating	Connector	Colour
ZAPPI-2H22UW - T	22kW	Untethered	White
ZAPPI-2H22TW - T	22kW	Tethered	White
ZAPPI-2H22UB - T	22kW	Untethered	Black
ZAPPI-2H22TB - T	22kW	Tethered	Black

## Performance

<b>Mounting Location</b>	Indoor or Outdoor (Permanent Mounting)
<b>Charging</b>	Mode 3 (IEC 61851-1 Compliant Communication Protocol)
<b>Display</b>	Graphical Backlit LCD
<b>Front</b>	LED Multicolour, According to Charge Status and Current
<b>Charging Current</b>	6A to 32A (Variable)
<b>Dynamic Load Balancing</b>	Optional Setting to Limit Current Drawn from the Unit Supply or the Grid
<b>Connector Type</b>	Type 2 Tethered Cable (6.5m) or Type 2 Socket with Locking System
<b>Charging Profile</b>	3 Charging Modes: ECO, ECO + and FAST
<b>Metering Accuracy</b>	Load and External CTs Designed to Meet Class B (1%) of EN 50470 <ul style="list-style-type: none"> <li>• Load: 0.25A-5(32)A</li> <li>• External CTs: 0.25A-5(100)A</li> </ul>
<b>eSense</b>	In addition to the wide range of voltages below the eSense input can also work with a volt free contact. <ul style="list-style-type: none"> <li>• Range 3.3-230Vrms</li> <li>• Volt Free Contact (24Vdc Supplied from the zappi)</li> </ul>
<b>Compliance</b>	LVD2014/35/EU, EMC 2014/30/EU, EN 61851-1:2019*, EN 62196-2:2017, ROHS 2011/65/EU, CE Certified 2014/53/EU (RED), 2011/65/EU (RoHS), 2014/30/EU (EMC), 2014/35/EU (LVD).

## Electrical Specification

<b>Rated Power</b>	22kW (3-Phase)
<b>Rated Supply Voltage</b>	400V AC 3-Phase (+/- 10%)
<b>Supply Frequency</b>	50Hz
<b>Rated Current</b>	32A max.
<b>Standby Power Consumption</b>	3W
<b>Integral Protection</b>	6mA DC residual current protection (RDC-DD in accordance with EN 62955)
<b>Economy Tariff Sense</b>	Input 3.3 – 230Vrms AC Sensing (4.0kV Isolated) Volt Free Contact (24Vdc Supplied from the zappi)
<b>Wireless Interface</b>	868/915 MHz (Proprietary Protocol) for Wireless Sensor and Remote Monitoring Options
<b>WiFi Connectivity</b>	2.4GHz 802.11BGN Connection up to 150 Mbps
<b>Grid Current Sensor</b>	100A max. Primary Current, 16mm max, Cable Diameter
<b>Cable Entry</b>	Rear, Bottom or Side

## Mechanical Specification

<b>Enclosure Dimensions</b>	439 x 282 x 122mm
<b>Protection Degree</b>	IP65 (Weatherproof)
<b>Enclosure Material</b>	PC/ASA (Batch dependant)
<b>Operating Temperature</b>	-25 °C to +40 °C (Out of direct sunlight)
<b>Impact Resistant</b>	IK10