

# zappi

## ➤ Charge your EV with your PV



zappi has 3 charging modes which makes it great for all homeowners. Those with grid-tied micro-generation systems like wind or solar can use the eco settings allowing users to save on 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.

➤ 7kw Single Phase

➤ 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 + & 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
- OLEV (Home/Work Scheme) Approved - HUB required
- Tap Operated Display Backlight
- Built-in RCD Protection
- Integral Cable Holster
- Remote Control & Monitoring Add-on Option
- Supplied With Clip-on Grid Current Sensor(s)
- Works Alongside Battery Storage Systems
- A Future Proof Installation
- 3 Year Warranty

### 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.

## Performance

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Mounting Location      | Indoor or Outdoor (permanent mounting)                                   |
| Charging               | Mode 3 (IEC 61851-1 compliant communication protocol)                    |
| Display                | Graphical backlit LCD                                                    |
| Front                  | LED Multicolour, according to charge status and current                  |
| Charging Current       | 6A to 32A (variable)                                                     |
| Dynamic Load Balancing | Optional setting to limit current drawn from the unit supply or the grid |
| Connector Type         | Type 2 tethered cable (6.5m) or type 2 socket with locking system        |
| Charging Profile       | 3 charging modes: ECO, ECO+ & FAST                                       |
| Compliance             | LVD 2014/35/EU, EMC 2014/30/EU, EN 62196, EN 62955:2018 CE certified     |

## Electrical Specs

|                                   |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| Rated Power                       | 7kW (1-ph) or 22kW (3-ph)                                                      |
| Rated Supply Voltage              | 230V AC Single Phase or 400V AC 3-phase (+/- 10%)                              |
| Supply Frequency                  | 50 Hz                                                                          |
| Rated Current                     | 32A max                                                                        |
| Standby Power Consumption         | 3W                                                                             |
| Integral Earth Leakage Protection | 30mA Type A RCD + 6mA DC protection (EN 62955)                                 |
| Economy Tariff Sense              | Input 230V AC sensing (4.0kV isolated)                                         |
| Wireless Interface                | 868 MHz (proprietary protocol) for wireless sensor & remote monitoring options |
| Grid Current Sensor               | 100A max. primary current, 16mm max. cable diameter                            |
| Cable Entry                       | Rear, bottom or side                                                           |

## Mechanical Specs

|                       |                     |
|-----------------------|---------------------|
| Enclosure Dimensions  | 439 x 282 x 122mm   |
| Protection Degree     | IP65 (weatherproof) |
| Enclosure Material    | ASA                 |
| Operating Temperature | -25°C to +40°C      |

## Installation Requirements

|                      |                                                                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Breaker      | 32A Curve B                                                                                                                                                                                         |
| Earthing Arrangement | TN : can be connected to the PME supply. Complies with BS7671:2018-amd1:2020 722.411.4.1 (v)<br>TT : earth resistance < 200 $\Omega$ according to BS 7671:2018, or < 100 $\Omega$ for some vehicles |

## Model Variations

| Model No.   | Rating         | Connector  | Colour |   |
|-------------|----------------|------------|--------|---|
| ZAPPI-207UW | 7kW            | Untethered | White  | ○ |
| ZAPPI-207TW | 7kw            | Tethered   | White  | ○ |
| ZAPPI-207UB | 7kW            | Untethered | Black  | ● |
| ZAPPI-207TB | 7kW            | Tethered   | Black  | ● |
| ZAPPI-222UW | 22kW (3-phase) | Untethered | White  | ○ |
| ZAPPI-222TW | 22kW (3-phase) | Tethered   | White  | ○ |
| ZAPPI-222UB | 22kW (3-phase) | Untethered | Black  | ● |
| ZAPPI-222TB | 22kW (3-phase) | Tethered   | Black  | ● |