zappi has special eco charging modes which will benefit homeowners with grid-tied microgeneration systems, like wind or solar generation. 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.

**EV charging from surplus solar or wind generation.**
**Dynamic load balancing for maximum installation flexibility.**
**Advanced integral safety features.**

**7kW Single Phase**
**22kW 3-Phase**

- 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
- Pin-code lock function
- Tap operated display backlight
- Built-in RCD protection
- Integral cable holster
- Remote control and monitoring add-on option
- 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
- 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+ and FAST
- Compliance: LVD 2014/35/EU, EMC 2014/30/EU, EN 61851-1:2017, EN 62196, EN 62955:2018

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 (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
- **Earth Leakage Protection**: Integral 30mA Type A RCD (EN 61008) + 6mA DC protection (EN 62955)
- **Economy Tariff Sense Input**: 230V AC sensing (4.0kV 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, bottom or side

Mechanical Specifications
- **Enclosure Dimensions**: 439 x 282 x 122mm
- **Protection Degree**: IP65 (weatherproof)
- **Enclosure Material**: ABS 6 & 3mm (UL 94 flame retardant) colours: white RAL 9016 and grey RAL 9006
- **Operating Temperature**: -25°C to +40°C

Installation requirements
- **Circuit Breaker**: 40A curve B (2-pole 1-ph or 4-pole 3-ph)
- **Earthing Arrangement**: TN : can be connected to the PME supply. Complies with BS 7671:2018, 722.411.4.1 (iii) TT : earth resistance < 200 Ω according to BS 7671:2018, or < 100 Ω for some vehicles

Model Variations
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Rating</th>
<th>Connector</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZAPPI-207UW</td>
<td>7kW</td>
<td>Untethered</td>
<td>White</td>
</tr>
<tr>
<td>ZAPPI-207TW</td>
<td>7kW</td>
<td>Tethered</td>
<td>White</td>
</tr>
<tr>
<td>ZAPPI-207UB</td>
<td>7kW</td>
<td>Untethered</td>
<td>Black</td>
</tr>
<tr>
<td>ZAPPI-207TB</td>
<td>7kW</td>
<td>Tethered</td>
<td>Black</td>
</tr>
<tr>
<td>ZAPPI-222UW</td>
<td>22kW (3-phase)</td>
<td>Untethered</td>
<td>White</td>
</tr>
<tr>
<td>ZAPPI-222TW</td>
<td>22kW (3-phase)</td>
<td>Tethered</td>
<td>White</td>
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