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zappi

Charge Your EV With Your PV

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.

- 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

- 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
- Works alongside battery storage systems
- A future proof installation

Charging Modes

ECO

Charge power is continuously adjusted in response to changes in generation or consumption elsewhere in the home. Charging will continue until the vehicle is fully charged, even if the power is drawn from the grid.

ECO+

Charge power is continuously adjusted in response to changes in generation or 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 and 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 61851-1 :2017, 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
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 Specs

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

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	●

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