

eddi

Eco-Smart Energy Diverter



eddi is an eco smart energy management system, it diverts surplus power from solar PV or wind generation to a designated heating appliance (or two sequentially). This excess energy will go directly to a designated appliance such as an immersion heater. eddi allows you to stop exporting energy back to the grid & saves you money on your energy bill.



eddi utilises myenergi's proprietary VariSine™ technology to ensure compliance with worldwide power grid standards.

Internet connected & remote controllable

Optional add on with the myenergi hub

Works with heat-pumps

when used with optional Relay & Sensor Board

3-Year

Warranty

eddi Features

- ⊗ 3.68KW / 16A max heater load
- ⊗ Supports two heaters (sequentially)
- ⊗ Integral bypass switch
- ⊗ VariSine™ PWM technology
- ⊗ Fan-less cooling
- ⊗ Built-in programmable boost timers
- ⊗ Energy savings data logging
- ⊗ Graphical back-lit LCD screen for ease of use
- ⊗ Overload and short-circuit protection
- ⊗ Expansion module option - 2 extra outputs with temperature control
- ⊗ Wall mounting bracket for ease of installation
- ⊗ Fully EMC and safety compliant (CE)
- ⊗ Works alongside battery storage systems



Free Water & Space Heating Using Excess Energy From Your Solar PV Or Wind Turbine

Performance

| | |
|-----------------------------|---|
| Power Control Technology | VariSine™ pure sine wave PWM (Pulse Width Modulation) |
| Outputs | 2 (sequential operation with selectable priority) |
| Bypass Switch | Integral On/Off/Bypass switch |
| Cooling | Rear mounted passive cooled heatsink |
| Indicators | LED indication: Supply On, Heater 1 and Heater 2 active |
| Display | Graphical LCD with LED backlight (shows heating status and savings data) |
| PWM Resolution | 0.1% |
| Measurement Accuracy | +/- 1% |
| Power Conversion Efficiency | 97.5% typ. |
| Compliance | LVD 2014/35/EU, EMC 2014/30/EU, EN 60335-1:2012, EN 55014-1:2006, EN 55014-2:1997 +A1:2001+A2:2008, EN 61000-3-2:2006 +A1:2009+A2:2009, EN 61000-3-3:2008 |

Electrical Specs

| | |
|----------------------------|--|
| Rated Input Power | 3.68kW |
| Rated Supply Voltage | 230V AC Single Phase (+/- 10%) |
| Supply Frequency | 50Hz / 60Hz |
| Rated Current | 16A |
| Standby Power Consumption | 3W |
| Generator Size Supported | No limit (subject to 100A per-phase grid supply) |
| Heater Load Size | 100W min. 3.68kW max. |
| Economy Tariff Sense Input | 230V AC sensing (2.5kV isolated) |
| Wireless Interface | 868/915 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 option |

Mechanical Specs

| | |
|-----------------------|---|
| Dimensions | 220 x 205 x 87mm (excluding wall bracket) |
| Weight | 4.3kg (excluding wall bracket) |
| Protection Degree | IP20 |
| Enclosure Material | Painted Zintec Steel |
| Operating Temperature | -20°C to +40°C |
| Mounting Method | Wall Mounting Bracket |



Designed to permit installations compliant with IET Wiring Regulations BS7671:2018- and 1:2020 and the Electricity Safety, Quality and Continuity Regulations 2002 and BS 8300:2009+A1:2010