

# 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