



## Microgeneration energy diverter

Free water and space heating using excess energy from your PV or wind turbine



- 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
- Automatic Daylight Saving Time adjustment
- Expansion module option
- Wall mounting bracket for ease of installation
- Fully EMC and safety compliant (CE)
- 3-year warranty

**eddi** is an energy management system for use with grid-tied PV or wind turbine systems. Excess energy from the microgeneration system is used to heat water or rooms rather than exporting it to the grid. Two heaters are supported (typically top and bottom immersion heaters).

A grid current sensor (supplied) simply clips around the incoming supply cable. This sensor is used to monitor excess power and **eddi** automatically adjusts the voltage to the heater load, thereby consuming the surplus power. A self-powered wireless sensor is available separately.

An internal expansion interface provides a means to add an expansion module to enable various functions such as auto switching from day-time and night-time supply, heat pump interfacing for legionella control and temperature sensing. An optional ELS module allows **eddi** to be officially used for G100 compliant Export Limiting Schemes, avoiding expensive grid network reinforcement costs.

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

### Performance

<b>Power Control Technology</b>	VariSine™ pure sine wave PWM (Pulse Width Modulation)
<b>Outputs</b>	2 (sequential operation with selectable priority)
<b>Bypass Switch</b>	Integral On/Off/Bypass switch
<b>Cooling</b>	Rear mounted passive cooled heatsink
<b>Indicators</b>	LED indication: Supply On, Heater 1 and Heater 2 active
<b>Display</b>	Graphical LCD with LED backlight (shows heating status and savings data)
<b>PWM Resolution</b>	0.1%
<b>Measurement Accuracy</b>	+/- 1%
<b>Power Conversion Efficiency</b>	97.5% typ.
<b>Compliance</b>	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
<b>Warranty</b>	3 Years

## Electrical Specifications

<b>Rated Input Power</b>	3.68kW
<b>Rated Supply Voltage</b>	230V AC Single Phase (+/- 10%)
<b>Supply Frequency</b>	50Hz / 60Hz
<b>Rated Current</b>	16A
<b>Standby Power Consumption</b>	3W
<b>Generator Size Supported</b>	No limit (subject to 100A per-phase grid supply)
<b>Heater Load Size</b>	100W min. 3.68kW max.
<b>Economy Tariff Sense Input</b>	230V AC sensing (2.5kV isolated)
<b>Wireless Interface</b>	868 MHz (proprietary protocol) for wireless sensor and remote monitoring options
<b>Grid Current Sensor</b>	100A max. primary current, 16mm max. cable diameter
<b>Supply Cable Entry</b>	Rear, bottom, or side option

## Mechanical Specifications

<b>Dimensions</b>	220 x 205 x 87mm (excluding wall bracket)
<b>Weight</b>	4.3kg (excluding wall bracket)
<b>Protection Degree</b>	IP20
<b>Enclosure Material</b>	Painted Zintec steel
<b>Operating Temperature</b>	-20°C to +40°C
<b>Mounting Method</b>	Wall mounting bracket

Designed to permit installations compliant with IET Wiring Regulations BS7671:2008+A3 2015 and the Electricity Safety, Quality, and Continuity Regulations 2002 and BS 8300:2009+A1:2010.