



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

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
Warranty	3 Years

Electrical Specifications

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 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 Specifications

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 BS7671:2008+A3 2015 and the Electricity Safety, Quality, and Continuity Regulations 2002 and BS 8300:2009+A1:2010.