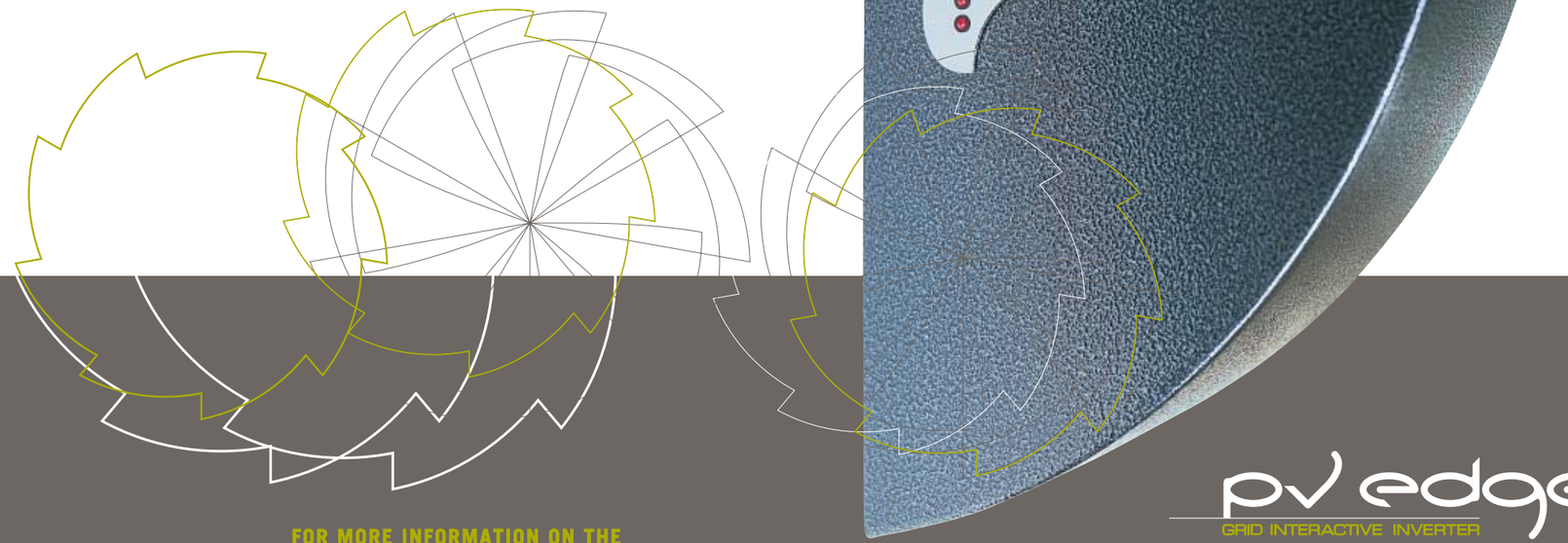
A NEW WORLD POWER–RIGHT HERE, RIGHT NOW

Latronics is Australia's leading manufacturer of renewable energy inverters.

Established in Queensland in the mid-1980s, Latronics has a long history of designing and manufacturing power inverters for domestic, commercial and industrial applications. The company has exported its products to more than 30 countries.

The Latronics Caloundra factory is committed to green manufacturing principles. It runs entirely on solar energy. It's almost 100% emission free. And the PV Edge unit itself is more than 97% recyclable.

"...WE AT LATRONICS LIVE OUR DESIGN."



pv edge GRID INTERACTIVE INVERTER

FOR MORE INFORMATION ON THE PV EDGE GRID INTERACTIVE INVERTER...

www.latronics.com

LATRONIC SUNPOWER PTY LTD. CALOUNDRA QLD. 4551 ABN 97 010 707 169

LATRONICS® A NEW WORLD POWER

pv edge GRID INTERACTIVE INVERTER

TURN YOUR HOME INTO A GREEN POWER STATION

RENEWABLE ENERGY. AUSTRALIAN INGENUITY.

POWER TO THE PEOPLE

Over the past generation, solar hot water systems have become a common sight on rooftops in Australia. More and more people are turning to the sun for clean, free hot water. In a generation's time, it will be the same for solar or photovoltaic (PV) grid interactive systems.

The PV Edge enables you to turn energy from the sun into electricity for your community. A grid interactive system enables you to feed the electricity you've generated back into the mains supply. This effectively spins your electricity meter backwards and reduces demand on power generators. Your home becomes a green power station. So, every day, you're saving money and helping to reduce greenhouse gas emissions from power utilities. The system ultimately pays for itself.

One household grid interactive system saves more than two tonnes of greenhouse gases every year. It's a powerful example of thinking globally and acting locally.

PV EDGE—RENEWABLE ENERGY, AUSTRALIAN INGENUITY

The PV Edge is the first Australian designed and manufactured grid interactive inverter for the home.

Designed and manufactured by Latronics in Caloundra, Queensland, the PV Edge is a world-class Australian product. It's competitively priced, and it outclasses the imported competition for quality, reliability and performance.

The elegantly designed PV Edge looks more like a work of sculpture than a piece of technology. The wall-mounted unit doesn't take up a lot of space and it makes no noise.

OPTIMUM PERFORMANCE, SAFETY AND VALUE

The PV Edge optimises the available solar energy through a process called "maximum power point tracking". The solar array is held at the optimum voltage for the highest possible system efficiency.

Latronics' failsafe toroidal transformer technology provides optimum isolation, which means perfectly safe home use. In the event of power failure, the PV Edge activates anti-islanding protection, safeguarding the system.

The PV Edge is designed to operate with only six solar modules, making it easier and cheaper to set up and install. Additional solar modules and inverters can be connected to increase the output of the system.

TURN YOUR HOME INTO A GREEN POWER STATION

Grid interactive systems are widely used in homes throughout Europe and Japan, where electricity is expensive and environmental awareness is high.

As more communities around the world are faced with the challenge of generating more energy for more people—while reducing greenhouse gas emissions—turning our homes into green power stations makes a lot of sense.

Installing the PV Edge is good for your balance sheet, your community, your country and your environment.

In fact, many countries provide generous subsidies and rebates for installing solar panels and grid interactive systems. Talk to your retailer or local power authority to see how cost effective it could be to turn your home into a green power station.

pv edge
GRID INTERACTIVE INVERTER

TECHNICAL SPECIFICATIONS

INPUT DATA	
RECOMMENDED SOLAR INPUT @ 25°C	1500 W
MAXIMUM INPUT VOLTAGE	150 V DC
MAXIMUM POWER POINT TRACKING RANGE	85 – 140 V DC
AUTOMATIC TURN ON	100 V DC
NUMBER OF MODULES IN SERIES	6 x 12 V MODULES
STARTING OPERATION	10 W
REVERSE POLARITY PROTECTION	SHORT CIRCUIT DIODE ACROSS PV TERMINALS
OUTPUT DATA	
OUTPUT POWER	1300 W MAX
OUTPUT VOLTAGE RANGE	205 – 265 VAC
OUTPUT FREQUENCY	50 +/- 1HZ
OUTPUT CURRENT HARMONIC DISTORTION	< 4%
POWER FACTOR	1
PEAK EFFICIENCY	93%
NIGHT TIME POWER CONSUMPTION	ZERO AUTOMATICALLY DISCONNECTS FROM AC GRID
INPUT / OUTPUT ISOLATION	3500 V VIA TOROIDAL TRANSFORMER
OPERATING TEMPERATURES	- 10°C TO 50°C
ANTI ISLANDING PROTECTION	OVER / UNDER VOLTAGE, OVER / UNDER FREQUENCY & ACTIVE PHASE SHIFT
GENERAL DATA	
STATUS INDICATORS	OUTPUT POWER IN 20% INCREMENTS SOLAR INPUT ON AC GRID MONITORING – STABILITY CHECK
WALL MOUNT ENCLOSURE	3mm POWDER COATED ALUMINIUM
DIMENSIONS	H 420 x W 340 x D 166mm
WEIGHT	17 kg
CONNECTIONS	10mm TERMINAL BLOCK
WARRANTY	2 YEARS
STANDARDS	C-TICK, ESAA APPROVAL NO. 51973, CERTIFICATE OF SUITABILITY Q01307, AS3000, EN55014

RENEWABLE ENERGY. AUSTRALIAN INGENUITY.