



## New cell technology with 5 busbar

Canadian Solar's new Quintech poly modules use the latest innovative five busbar cell technology, increasing module power output and system reliability.

- 25 years linear power output warranty
- 10 years product warranty on materials and workmanship
- AS/NZ/1170 certified



## Enasolar Inverter - NZ Made

Ideal where little or no shading occurs

High Quality - priced well

Enasolar manufacture a range of cool solar inverters, which includes 1.5, 2.0, 3.0, 3.8kW and 4.0 & 5.0kW dual MPPT grid-tied solar inverters

- Built-in Wi-Fi as standard for web based PV system monitoring and reporting
- Integrated lockable DC and AC isolating switches
- Front mounted heat sink allows more airflow, easy care and cleaning
- Wide operating voltage range
- Light weight
- 5 year warranty included as standard
- A more efficient design means longer life and less call outs



## Solar Energy and Home Heating/Domestic Hot Water

- Reduce your power bills with electric / photovoltaic solar panels
- Add a solar energy boost to your floor slab during winter - 1kW into your heat pump yields approx 4kW output
- Heat your domestic hot water with Water Solar Panels, and optionally divert excess energy to the floor slab where you can have a water fed heating system
- Power your home in the evening by combining free solar electricity with your battery storage system



## Heat-Pump-Powered Low Energy Hot Water

- Utilise heat pump technology and enjoy up to 420% efficiency when heating your swimming pool and 340% on domestic hot water



# Looking for the best solar PV system for your home?

## Vikram Solar modules and GMDE battery storage solutions



Showroom 223 Kaikorai Valley Road, Dunedin.

Open 9am to 5.00pm or by appointment

Coming to McNulty Road, Cromwell

Servicing Otago, Southland & South Canterbury for over 26 years

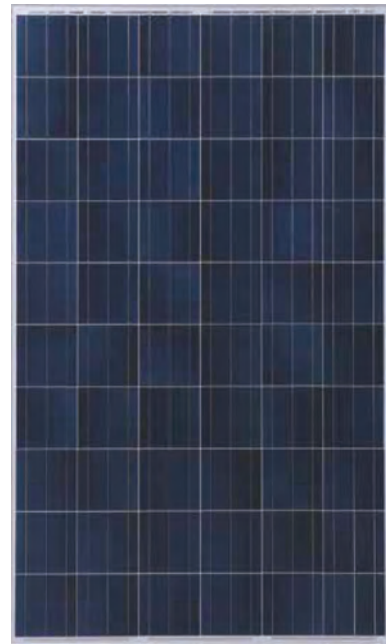
[www.warmandcool.co.nz](http://www.warmandcool.co.nz) Dunedin Ph: 03 453 1010  
Central Otago Ph: 03 442 0813





# Helping New Zealanders create energy efficient homes and businesses

## Vikram Solar Ultima Silver Series



- Designed for very-high-area efficiency ideally suited for rooftop and ground-mounted applications
- Up to +2.5 Watts positive power output tolerance guaranteed ensuring faster return on investment
- Extremely reliable product suiting all environments
- Engineered to provide excellent low light response
- Extremely narrow power binning tolerance to reduce current mismatch loss in single string



### Quality and Safety

- 27 years of linear power output warranty \*\*
- Rigorous quality control meeting the highest international standards
- 100% EL tested to ensure micro crack free modules
- Certified for PID resistance

- Certified for salt mist corrosion resistance – severity VI
- Certified for ammonia resistance
- Compatible with K2, HILTI & Schletter structures for short and long-side clamping
- 3rd Party PAN file validated by PVEL
- Approved by OST Energy

### Applications

- On-grid large scale utility systems
- On-grid rooftop residential and commercial systems
- Off-grid residential systems

\*\* Refer to Vikram Solar's warranty document for terms and conditions.

### How does Photovoltaic Solar work?

Photovoltaic solar harnesses light, converting it to electricity through silicon crystals. The silicon crystals are man-made as single faceted crystals (mono-crystalline) or multi-faceted crystals (poly-crystalline). Polycrystalline crystals are more expensive to make but have slightly better efficiency, but new production methods have closed the gap. You will generally pay around the same price per watt produced from either type.



New Vikram 5MW panels in the UK

## GMDE Powervortex 5200 Solar Battery Storage

- 5.0kW PV System with 7.2kWh affordable solar battery storage solution
- Conforming with latest AS4777 certification standards, has a means of connecting to a GRID
- Extremely competitive prices
- Grid export available
- Offers 2 mode options: maximizing self-use or Time of Use
- Save up to 70% on household energy bills
- Protect your family from power outages



### Powervortex 5200 hybrid inverter

The inverter converts the DC power produced by PV modules into AC power. The electricity is then primarily used by the loads, then being charged into the battery packs; only excess power is fed into the utility grid.

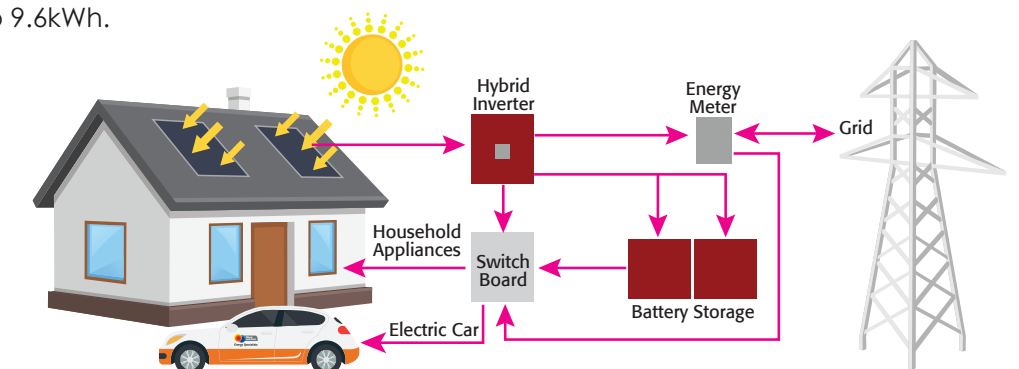
In combination with the batteries, this hybrid inverter helps maximise the PV self-use in the household.

### 7.2kWh lithium battery packs

The lithium battery system stores the energy generated from solar energy and increases self-use from 30% to 70%; 2.4kWh battery modular design, 3 modules of 7.2kWh in the standard system. Additional battery expandable to 9.6kWh.

### ADL100-E/C energy meter

Adopt the 1-phase bi-directional energy meter for communication, and hybrid inverter controls when to charge/discharge according to the data from the meter. Online web portal and smart phone app available.



## Hoymiles Mi-500 Microinverter

Perfect where some shading has much lesser effect on some of the panels

