



NZsolar

New Zealand

Your Solar Specialists

REDUCE YOUR

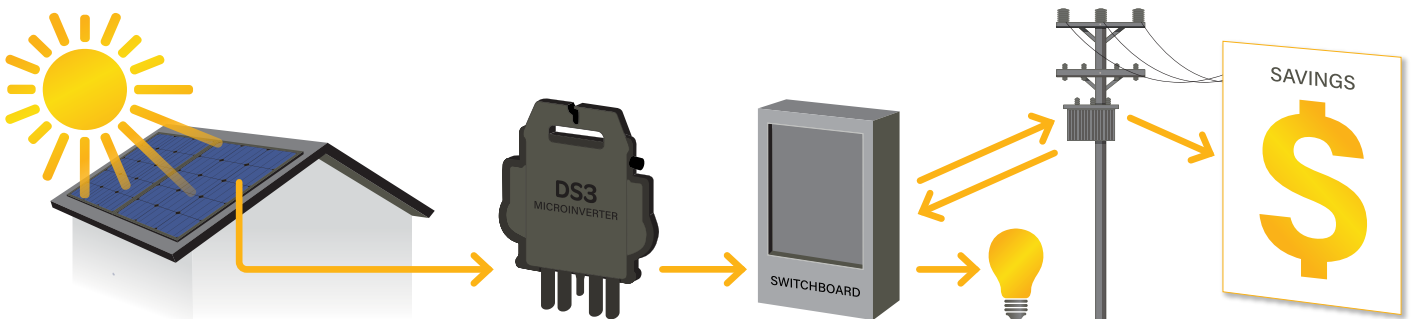
ENERGY BILLS

WHY WAIT?

NZ SOLAR ARE EXPERTS IN INSTALLATION, DESIGN AND SOLAR SUPPORT

How Your System Works

The whole system is designed to be the optimal solution for your property, and will operate seamlessly once installed, transitioning between solar power and grid power.



By absorbing sunlight your solar panels will generate Direct Current (DC) energy.

Via the Microinverter, energy converts to usable Alternating Current (AC) energy. The DS3 is installed under the solar panels.

This energy then flows through your home's switchboard and is distributed accordingly

Your energy provider will credit you for any power exported back to the grid

ON-GOING SUPPORT

Once the installation has been completed, our friendly team will continue to offer full technical support and a comprehensive advisory service.

FULL WARRANTY

Each installation comes with a full warranty as listed:

- **Panels:** 25 year warranty.
- **APS Microinverters** have an industry leading 20 year warranty.

ONLINE MONITORING

You will have access to your system's performance via an app that displays your solar production. This feature is a great addition that enables you to easily monitor how your system is operating.



FINANCE OPTIONS

Great finance options for sustainable home loans, these are called "Green Loans", see the back page to read more.



TAILORED DESIGNS

We can design a system tailored specifically for you:

- On-grid and off-grid
- Residential and commercial
- Batteries and EV chargers
- In-house electricians

Get in touch today
info@nzsolar.co.nz

Nelson owned and operated since 2005.
Friendly, honest and reliable service.



03 544 8553
www.nzsolar.co.nz



Microinverters – The Superior System

NZ Solar uses Microinverters! ✓



Microinverter System – Each panel has its own inverter so works independently of the other panels.

Benefits: If one panel is affected by any shading, only that one panel that will be affected. Other panels are still able to function fully.

String Inverter System – Every panel is connected to only one inverter.

Disadvantage: If one panel is affected by any shading, then every panel suffers the same decreased productivity

MUCH SAFER

MORE EFFICIENT

MORE INTELLIGENT

MORE FLEXIBLE

MORE RELIABLE

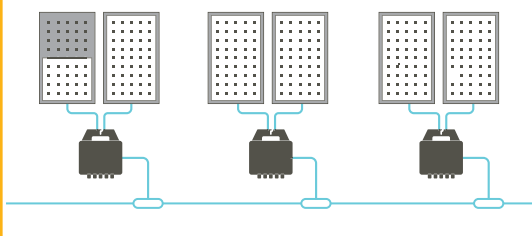
SHADING

Grey = affected (decreased generation)

White = not affected (fully functioning)

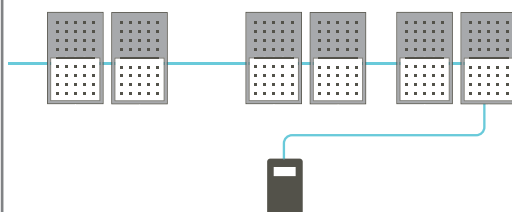
MICROINVERTER

- DC voltage less than 60V.
- Low voltage, less risk.
- Minimal loss of production from any shading.
- Multiple roof orientation install options.
- Module-level MPPT, increase power generation up to 25%.
- Easy to expand at any time.
- Design life 25 years plus.
- IP67 rated.
- Module-level monitoring (in parallel).



STRING INVERTER

- DC voltage between 600-1500V.
- High voltage, risk of electric shock.
- Heavily impacted production caused from shading.
- Limited roof orientation install options.
- String-level MPPT.
- Difficult for expansion
- Design life up to 8-15 years.
- IP65 rated.
- String-level monitoring (in series).



The Most Powerful Multi-module Microinverter Range

DS3 SERIES SINGLE PHASE DUAL MICROINVERTER

- 750W / 880W / 960W
- 2 MPPTs
- Safety protection relay integrated
- 20% less components
- 97% efficiency
- Encrypted ZigBee Communication

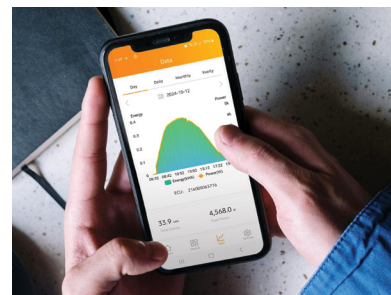
QT2 SERIES THREE PHASE QUAD MICROINVERTER

- 2000W
- 4 input channels with low DC voltage
- Single unit connects to 4 modules
- Adjustable output power factor
- Safety protection relay integrated
- Balancing 3-phase output
- 97% efficiency
- Encrypted ZigBee Communication



DS3 SERIES

QT2 SERIES



Battery Systems

Smart AC-coupled controller battery Storage Solutions

The system includes the ELS-5K single-phase battery charger solution together with AP systems low voltage batteries. It becomes the ideal AC-coupled storage solution for residential PV applications.

With automatic energy management features based on intelligent software and integrated monitoring, system owners can choose between Back-up, Self-consumption and Peak Valley time modes to secure critical loads during power outages and maximize energy savings for their houses.

ELS-5K POWER CONVERSION SYSTEMS

- AC coupled on-grid system
- Off-grid PV function*
- Connect to multiple battery units
- Connect to low battery voltage input
- Innovative energy control modes (backup, self consumption and peak valley)



AP BATTERY

- CATL LFP cells inside
- 10.24KWh capacity per unit
- 48V low battery voltage input
- IP65 protection
- Ethernet / Wireless / RS485 / CAN



* Off-grid function only works on DS3 and QT2 Microinverters.



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NZ SOLAR ARE COMPETITIVELY PRICED AND OFFER FREE QUOTES

SunMate

The SunMate is an innovative renewable energy management product that uses the surplus power generated by your solar system to heat your hot water. Every unit of energy used to heat the hot water in this way reduces imported energy by the same amount, resulting in significant savings in imported energy.



The SunMate System

- Works with any solar system.
- Works with a standard electric hot water cylinder.

The SunMate Controller

- Ensures maximum usage of solar that would have otherwise been exported.
- The system is simple to install.

How the SunMate System Works

- Accurately monitoring the exported power and diverts power into the hot water system.
- Priority is always given to the energy demands of the household appliances and only surplus energy that would have otherwise been exported goes to the hot water system.

Finance Options

Many banks are offering great finance options for sustainable home loans, these are called "Green Loans". Take advantage of loaning up to \$80,000 from 0% interest, start reducing your power bills now.

Green Loans are only currently available to SEANZ approved installations and NZ Solar is an approved installer.

**As with all loans lending criteria, terms and conditions apply.*



SUNMATE 2.0

- Easy to install
- No need to change your existing electric hot water unit.
- Boost/timer function.
- Accurate power measurement.
- Precise intelligent power control.
- Highly reliable dual redundant solid state power electronics.
- LCD display.
- Wireless ready.
- 2 Outputs each configurable for variable or threshold power mode.
- Variable power mode for water heating.
- Threshold mode control for appliance control.
- Temperature sensor or thermostat operation.
- Output power expandable to 12kw.
- 5 Year warranty.

CONTACT US

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