

# THE ENERGY

AUGUST 2019

YHI NEWS SMA DISTRIBUTION



## YHI IS PROUD TO WELCOME WORLD-RENOWNED INVERTER BRAND, SMA, TO OUR ENERGY PORTFOLIO

We couldn't be more excited to welcome SMA to the YHI family of products, and more importantly, match your requirements with their solutions.

For over 35 years, SMA has been setting technological trends and driving the development of renewable energies. Their ground breaking inverter technology has made significant contributions in seeing that renewable energies leave the pioneer phase behind and become the norm worldwide.

SMA's extensive range provides options for every application. Residential solutions that combine intelligent solar technology and services to produce clean, renewable energy at home, through to large-scale, off-grid solutions allowing people and companies to gain greater independence in meeting their energy needs worldwide.

We are now entering the energy world of the future, Photovoltaics (*turning light into electricity*) is playing an important role and is the most cost-effective energy source in all regions. SMA integrates seamlessly into YHI's solar offering. Their range and expertise will be invaluable to ensuring YHI Energy is your partner for everything energy. You can protect your home against rising energy costs and switch on today to the energy world of the future.

YHI's team of solar experts can now effectively support the SMA brand for customers throughout New Zealand and the Pacific. Get in touch with your Account Manager to learn more about how this impressive brand can benefit your business.





YHI's solar carport on display at EV World

## EV WORLD'S FIRST SOLAR CARPORT - FEATURING TRINA SOLAR MODULE

EV World NZ was a resounding success with over 4,300 EV curious visitors engaged in this expo over two days. YHI's innovative stand featured the event's first ever Solar Carport - the amount of interest we had was overwhelming. The display utilised 18 Trina Solar 315w Honey Modules and a single carport. A 2019 BMW i3 Electric Vehicle was also parked on the stand to demonstrate the ease of supplying a FREE charge from your solar carport via a 7.2kW Roolec SolarCharge.

While a typical carport only provides shade, it can be a missed opportunity to supply energy back into your home, vehicle or grid. Carports are a popular option for many in urban and suburban areas. In a commercial setting, they could present a rare branding or marketing opportunity with an attractive return on investment.

### NEW PRODUCT ROLEC SOLAR CHARGE

## SMART CHARGE YOUR EV WITH ROLEC SOLARCHARGE

The Solar Carport displayed at EV World coincided with YHI's launch of the Roolec SolarCharge. This clever AC outlet is designed for a variety of uses including homes, workplaces, carparks and depots.

The WallPod EV SolarCharge includes two charging modes; allowing for charging from a combination of solar and grid or solar alone.

The first mode, the solar & grid charge, monitors solar being generated, highlights it on the data screen and tops up the shortfall from the grid.

The second mode, the solar only mode, allows for an EV to be charged solely off solar power. This mode monitors and tracks power generated by the solar array and limits the charge provided to the EV - matching the power produced by the panels.

"Technology is constantly changing, especially around software, with exciting developments in vehicle connectivity and communications in particular. YHI Energy is in a strong position to make the most of this evolution." Said Jasmine Roxbrough, YHI Energy Sales Operations & Project Manager.



Charge Your EV From Your PV



2 Charging Modes



Flame Retardant



IP65 Weather Proof & UV Stabilised



### NEW PRODUCT VISION DEEP CYCLE

## NEW VISION BATTERIES JOIN THE FM SERIES



Vision 6FM33D-X, 6FM45D-X, and 6FM100D-X Deep Cycle batteries are designed to have a large amount of stored current discharged between charging sessions, with heavier non-porous battery plates to withstand repeated major discharging and charging cycles. Common applications include solar and wind power systems, electric vehicles, mobile carts, wheelchairs, and more.

YHI Energy is proud to be the New Zealand distributor (since 2003) of batteries from the Vision Group, one of the largest Sealed Lead Acid Battery manufacturers in the world. Vision implements the ISO9001 quality system throughout all manufacturing processes. Checks are performed at multiple steps throughout the production process with 100% of the finished product being systematically performance tested prior to packaging and shipment.

#### General Features:

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized components.
- Can be mounted in any orientation.
- Computer designed lead calcium tin alloy grid for high power density.
- Long service life for float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.



Image: French Floating Trina Solar PV modules

## TRINA SOLAR SUPPLIES MODULES TO FLOATING PV PROJECT IN EUROPE

Late last year, Trina Solar announced that it has supplied 17MW of PV modules to the largest floating PV plant in Europe, the “O’MEGA 1” PV. The project has been developed by Akvo Energy, France’s leading independent producer of renewable energy. Once operational, the plant will produce 100% renewable energy covering the consumption of more than 4,700 households. The plant is spread over a 17-hectare property and will avoid the emission of roughly 11,100 tons of CO2 per year. O’MEGA 1 is powered by more than 46,000 units of Trina Solar’s monocrystalline modules in its low carbon footprint version.

With floating solar installations, water not only has a cooling effect on solar equipment: it works the other way as well. The floating solar panel structure shades the body of water and reduces evaporation from these ponds, reservoirs, and lakes. The use of renewable energy technologies helps decrease the emissions of greenhouse gas emissions and other pollutants into the atmosphere, leaving a positive impact on the natural environment as well as human health.

Trina Solar has grown rapidly since its foundation in 1997 and is now regarded as the world’s largest solar panel producer. With numerous branches in multiple markets, Trina Solar’s quality products continue to acquire awards and facilitate the adoption of renewable energy worldwide. YHI Energy is proud to supply Trina Solar in New Zealand; please get in contact with your Account Manager to learn more about this exciting brand.

### NEW PRODUCT ELTEK RECTIVERTER

## ELTEK RECTIVERTER HAS ARRIVED AT YHI

A revolutionary new device from Eltek has landed at YHI Energy. The Rectiverter allows you to have both DC load and AC load from the one integrated system, eliminating the need for a separate inverter.

The Rectiverter comes with Eltek’s comprehensive control system which provides fully unified communications and gives complete control of the device to the user.

AC and DC output from the same module is a completely new concept and we are excited to see how it will open up new applications for our customers.

“The benefits of being able to supply an AC source from the existing DC system future-proofs utility customers against the requirements of additional 230V equipment - including the supply of 230V emergency lighting. In the hybrid power supply space, the Rectiverter is a game changer allowing integration of network or generator power with solar, wind, micro hydro and storage battery all on a utility rated system” said Dean Jorgensen.



Image: Eltek Rectiverter

### EV NEWS FLEET CHAMPION OF THE YEAR

## NZ POST FLEET CHAMPIONS

A huge congratulations to our customer, New Zealand Post on the award of Fleet Champion of the year 2019 at this year’s EV World. This award recognises their work and commitment to a low carbon future for New Zealand. So far, NZ Post has acquired 11 Hyundai EVs – a mix of Kona and Ioniq and Senior Communications Advisor Greta Parker says “NZ Post aims to have an 100% electric fleet in 2025”; driving one of the largest electric vehicle fleets in the country. With the assistance of EECA’s Low Emission Vehicles Contestable Fund, NZ Post have also purchased five electric vans to assess suitability for use. “This initiative will help towards mainstreaming electric vans in our courier fleet and will help in reducing the carbon footprint of the mail they deliver”.

Like a lot of YHI Energys fleet customers, NZ Post has found simplicity and convenience in a mix of the Delta AC Mini Plus & 25kW DC Wallbox chargers to ensure their growing fleet is ready to go, whenever required. The AC Mini Plus is a great diverse, cost effective charging station for private, commercial and public applications whilst the DC Wallbox provides that quick top up to keep you moving, whether on-premise or en-route. Talk to your YHI Account Manager go find out more about these versatile products.



Image: EV World of NZ post vehicles



## YHI GOES ELECTRIC AGAIN

The Mitsubishi Outlander PHEV (Plug-in Hybrid Electric Vehicle) has recently joined the YHI fleet in Auckland. With existing charging infrastructure at our Auckland office the Outlander PHEV has settled in nicely and is charging daily to make the most of its 12kWh (~55km range) battery. EVs are more cost effective to run, easier to maintain, and deliver a superior driving experience.

In 2015 YHI added its first electric vehicle, the Outlander to our fleet, followed by the Hyundai Ioniq in 2017. So far our charging stations in Auckland have delivered over 3Mwh into our electric fleet and we look to add more electric vehicles where possible. The environmental footprint plays a key role of our operations in the creation of economic wellbeing for our staff and in our support of the local community. When it comes to transport our future is rapidly driving towards electric.

## YHI Energy Events



HIANZ - From left: Brian Crum & David Clarke. Featuring Morning Star controllers and inverters and Trojan batteries



EEA - Featuring Eltek rectifier, Eaton UPS, Delta EV, Solax inverters, Neuton Power, C&D, Vision and Trojan batteries.



From left: Aaron Gillon, Matti Dinkelmeyer (Delta), Jasmine Roxborough, Erin Robati & Nick Webster at EV World 2019

## Latest Products - Quick Guide

Keep up to date with all of the latest products just landed with our quick guide.

Code	Description
6FM33X-D	VISION DEEP CYCLE 12V 33AH RND TERMINAL VRLA BATTERY
6FM45X-D	VISION DEEP CYCLE 12V 45AH RND TERMINAL VRLA BATTERY
9SX1000I-AU	EATON 9SX 1000VA/900W ONLINE TOWER UPS
9SX1500I-AU	EATON 9SX 2000VA/1800W ONLINE TOWER UPS
9SX3000I-AU	EATON 9SX 3000VA/2700W ONLINE TOWER UPS
GXT1KVA	LIEBERT GXT-MTPLUS 1000VA/800W ONLINE TOWER UPS
GXT2KVA	LIEBERT GXT-MTPLUS 2000VA/1600W ONLINE TOWER UPS

Code	Description
GXT3KVA	LIEBERT GXT-MTPLUS 3000VA/2400W ONLINE TOWER UPS
T45	SOLAX TRIPLE POWER BATTERY HV 4.5KWH
T63	SOLAX TRIPLE POWER BATTERY HV 6.3KWH
TR12-AGM	TROJAN 12-AGM AGM DEEP CYCLE 12V 140AH BATTERY
TRSAGM06220	TROJAN SAGM 06 220 SOLAR AGM DEEP CYCLE 6V 220AH BATTERY
TRSAGM06375	TROJAN SAGM 06 375 SOLAR AGM DEEP CYCLE 6V 375AH BATTERY

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