



SOLAR PUMPTEC

SOLAR PUMPING SPECIALISTS



VSP Solar Pump
Packaged Systems



Assembled in Australia



Manufactured in Italy

SOLAR

VSP Solar pumps

VSP systems are created to meet the widest variety of pumping applications using solar energy.

The combination of VASCO Solar inverters with the complete range of stainless steel submersible pumps ranging from 4" to 10" offers a solution of superior quality, unique in its reliability, variety and performance.

Whatever the demand for water, there is always a VSP system that can satisfy it.

The VSP systems find application in irrigation, livestock watering, and pressurization. Pump speed is constantly adapted to available solar irradiation thus maximizing the amount of pumped water and making possible operation even in low irradiation conditions.

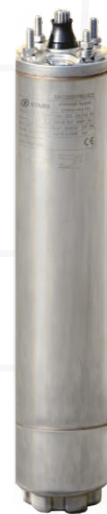
VASCO Solar is able to convert DC voltage coming from solar panels into AC voltage for powering any pump driven by a three phase motor.

Complete Pump Protection

VASCO Solar is able to protect the pump against overload and dry running. Dry running protection is performed by monitoring the motor's power factor and therefore probes are not required. VASCO Solar also protects itself against surges and overheating.

Monitoring Parameters

VASCO Solar is equipped with a back lit alphanumeric display and is designed to monitor key electrical parameters like input voltage, power, current and motor power factor. It is also possible to connect a pressure or flow sensor to monitor performance levels. The diagnosis menu logs inverter and motor hours, operating statistics, and the last eight alarms. The programming menus are password protected to prevent unwanted tampering.



Complete Range of 4", 6", 8", 10" Submersible Pumps

- Fully AISI 304 stainless steel. AISI 316 available on request.
- Stainless steel impellers and diffusers for maximum efficiency and reliability.
- Maximum sand content: 50 g/m³.



Three-Phase 4", 6", 8" Water Filled Submersible Motors

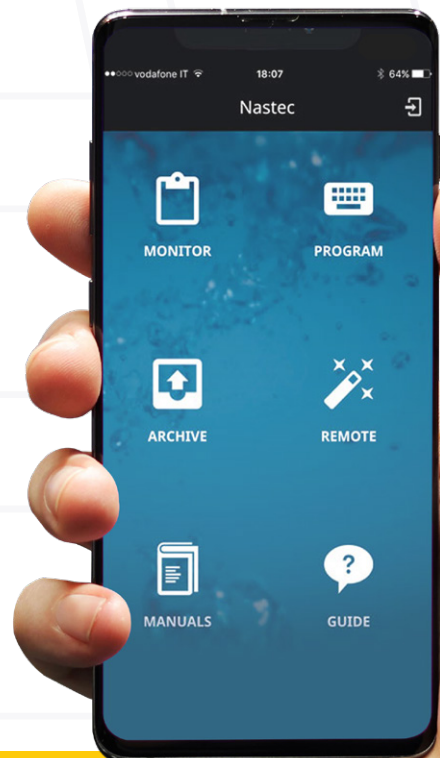
- Encapsulated and resinated stator* to grant maximum insulation and heat dissipation.
- Protection degree IP68.
- Insulation class F.
- Max water temperature: 30C, minimum speed 0.08 m/s.
- Removable lead connector.
- Cable for drinking water applications, VDE/ACS/KTW compliant.
- No-wear, water-lubricated thrust bearing.
- AISI 316 version available on request.



Unmatched User Experience

Thanks to the Nastec NOW app it is possible to communicate with all Nastec SMART Bluetooth devices in order to:

- Monitor multiple operating parameters simultaneously on the wide, high definition colour screen of your smartphone or tablet.
- Get energy consumption statistics and check the alarm log.
- Develop programs, save them in the archive, copy them to other devices and share them among multiple users.
- Create reports with the possibility of adding notes and images, and email or store them in the digital archive.
- Remotely control a Nastec device via Wi-Fi or GSM by tethering to a nearby smartphone.



VARIABLE SPEED CONTROLLER Solar

VASCO Solar is able to convert DC voltage coming from solar panels into AC voltage for powering any pump driven by a three phase motor.

Pump speed is constantly adapted to available solar irradiation thus maximising the amount of pumped water and making possible operation even in conditions of low sunlight.

VASCO Solar also offers complete pump protection against surges, overloads and dry running.

VASCO Solar is built entirely of aluminium to ensure maximum cooling and durability. Other metal parts are made using AISI 304 stainless steel and therefore resistant to corrosion.

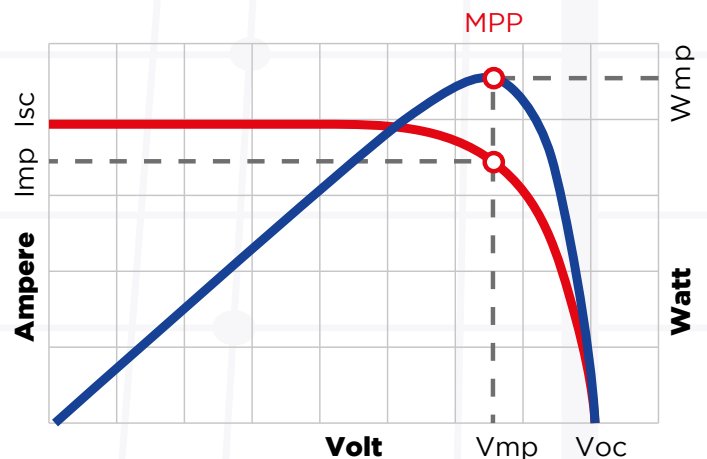
Two independent external fans and an internal fan provide perfect cooling.



MPPT: Always the Maximum Power Available

Based on the varying conditions of solar irradiation and temperature, MPPT (Maximum Power Point Tracking) maximises the electrical power drawn from the panels and therefore the amount of water pumped.

The greater the solar irradiation the faster the pump's rotation speed, and consequently water flow increases. When solar irradiation decreases (due to clouds or the different times of day), the pump reduces frequency and therefore the flow, but it continues to provide water until the irradiation falls below a minimum level necessary to ensure operation.





HMA is the definitive solution for automatic switching between power sources.

HMA is an electronic device for switching between power sources that integrates multiple functions:

Automatic Power Source Management

HMA, combined with any MultiPower “HMA ready” device, switches between AC power (mains or generator) and DC power (photovoltaic panels) completely automatically, based on the programmed logic.

Mechanical Disconnection of the Two Power Supplies

Two interlocked contactors guarantee the uniqueness of the power supply and ensure separation in order to ensure maximum electrical safety.

Control of Auxiliary Generator

When the AC power is provided by a generator, HMA is able to start or stop it according to need. HMA also monitors any signs of failure or running out of fuel.



Five programmable switching logics can meet any application requirement:

Manual Switching

Via the keyboard it is possible to switch from one power supply to another or even interrupt the power supply.

Timed Switching

The transition from the photovoltaic power source to the mains supply (or generator) and vice versa takes place at a time set by the user.

Switching from Digital Input

Switching is controlled by the opening or closing of a digital input.

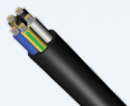
Switching by Flow

Switching from DC to AC power supply takes place automatically to satisfy the desired daily flow. It is also possible to set a time after which transition to AC is allowed.

Switching by Irradiation

If irradiation falls below a predetermined value or the power generated by the panels is not sufficient to operate the pump, HMA starts up the generator, if present, and switches to AC supply. When irradiation returns above the minimum threshold, the generator is switched off and the pump is restarted with DC power.





TF Submersible Cable

HO7RN-F Class 5.
-40°C to +90°C.
UV Resistant.
Oil Resistant.
Flame Retardant.
Manufactured
in Europe.

Tier 1 Solar Panels

10 Year Warranty.
25 Year Lineal
Power
Warranty.



Genuine MC4 Connectors



Wieland Connectors

Plug and Play.
Manufactured
in Germany.



Bore Cap

AISI 304 Stainless
Steel bore cap.
Manufactured in
Australia.



Package Control Options



**Clenergy
Mounting System**
Galvanised Components.
Stainless Steel
Hardware.
10 Year
Warranty.



Inside Enclosure Options

Option One - DC Only

The most simple solution to turn the pump on and off by hand.

Option Two - Manual Changeover Switch

The ability to manually switch between AC and DC.

Option Three - AC/DC HMA Automatic Controller

HMA, combined with any MultiPower "HMA ready" device, switches between AC power (mains or generator) and DC power completely automatically, based on the programmed logic.

Low Water Level Sensing

Performed by
monitoring the
motor's power
factor.



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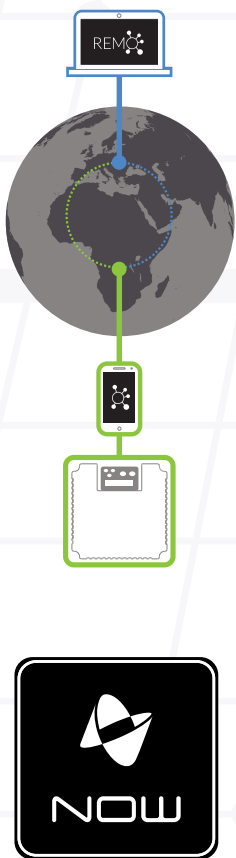


NASTEC® REMO

REMO is the revolutionary Nastec system for controlling devices remotely.

To implement the control system REMO is simple enough:

- Install an Android or iOS smartphone nearby Nastec device you wish to control. The smartphone, connected to the network via Wifi or GSM, communicates via Bluetooth with the associated Nastec device.
- Install Nastec NOW App on your smartphone, register for free and activate REMO mode.
- From PC or mobile, access to remo.nastec.eu to monitor or program your Nastec device from anywhere in the world.
- Shows immediate location of devices on the map.
- Real time monitoring of all operating parameters and possibility to start or stop the device remotely.
- Remote programming of parameters with possibility of importing and exporting them in .csv format.
- Send e-mails in case of alarm and alarm history reading.
- Recording of operating parameters and plotting on graphs.
- Capability to capture photos using a smartphone camera.

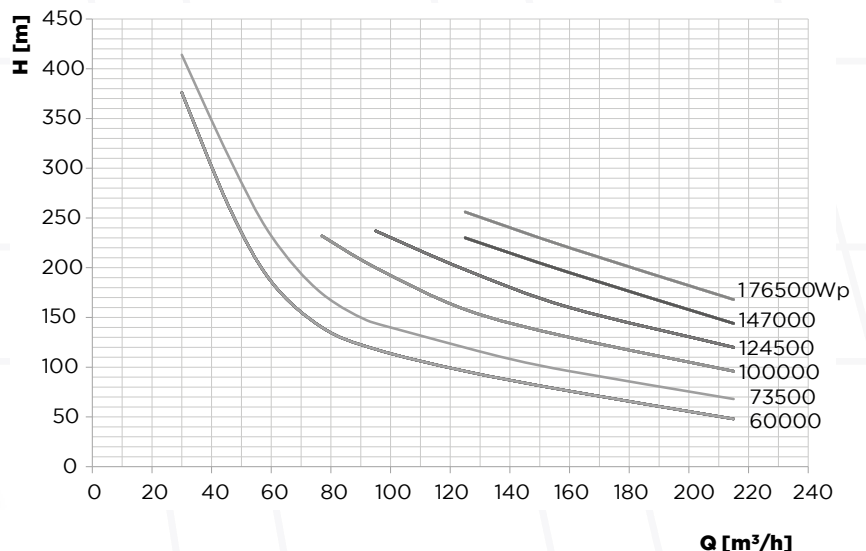
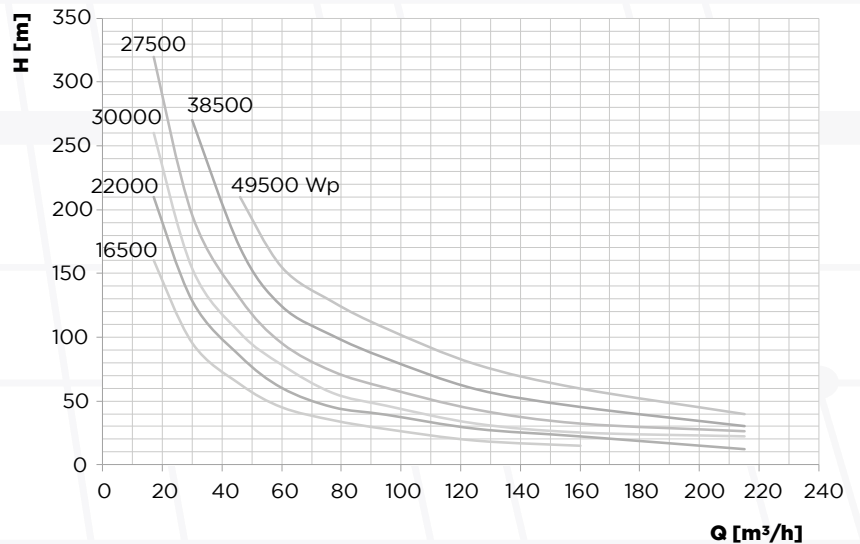
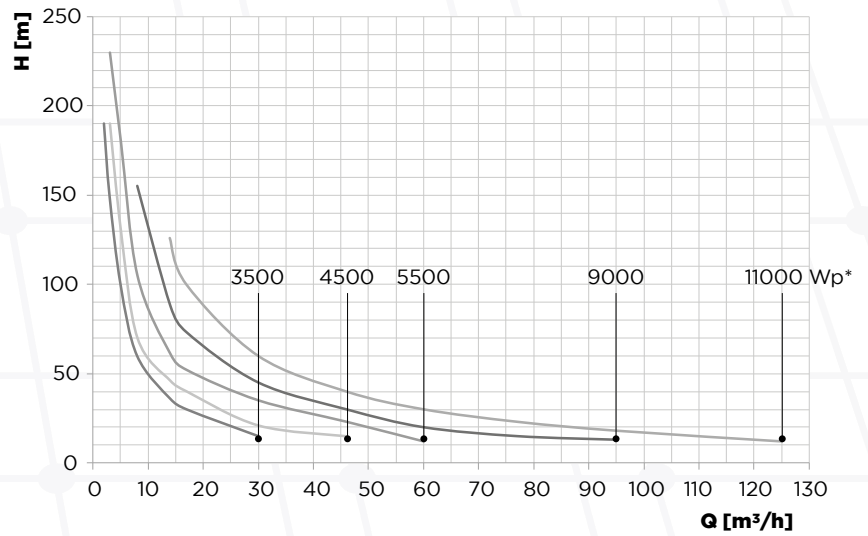


VSP Solar pumps

Performance

The range of VSP pumps is composed of 14 different hydraulic stages with a nominal flow from 2 to 215 m³/h. The number of stages varies according to the required head.

In this way it is possible to satisfy the most varied water requests. The table shows the maximum performance attainable by each type of hydraulics with the maximum number of stages.



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Solar Panels

To ensure you achieve the best results from your new NERA pumping system, we only offer high quality, Tier One solar panels.

Employing split cell technology, these high performance panels from either Trina Solar or JA Solar will reliably and consistently power your operation for the long term. Backed up by our ten year warranty, you can be confident knowing the panels we supply are ideal for your system.



Mounting System

Clenergy PV-ezRack SolarTerrace II-A is a pre-assembled ground mount system suitable for commercial and utility scale installations. This quality frame is trimmed at every angle for fast deployment reducing labour costs. Manufactured from high quality structural grade and anodised aluminium PV-ezRack SolarTerrace III-A is the perfect mounting solution for corrosive environments.

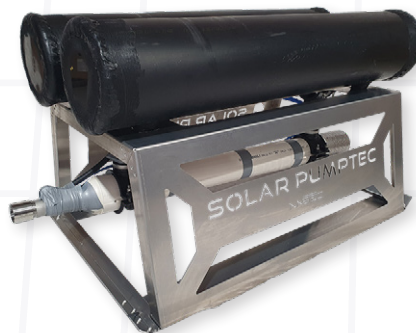


Surefoot Footings is the concrete free alternative to screw piles that is revolutionising the footing industry. Our high strength, hybrid 'all-in-one' steel footings are specifically designed to increase its efficiency when resisting gravity, uplift, shear and moment loads.



Floating Pontoon

Our range of quality built NERA systems are not only exclusively to be used with bores, but also work for dams, rivers and multiple other natural water sources. We have developed a specialised floating pontoon which enables you to utilise that water and pump to your header tank, dam or another location.



FSP-SLED pictured.



Proud suppliers of





Why Nastec?

Solar Pumptec pride ourselves on providing our customers with quality products for maximum impact and reliability. That's why we only align ourselves with the best, proudly offering and highly recommending a range of either 100% European or Australian made pumps and accessories.

Our major partnership is with the highly respected Italian company Nastec. Nastec was established in 2007 with the purpose of achieving a range of pumps and accessories which combined the knowledge of electronics and hydraulics. This resulted in a new generation of products with higher

reliability, simplicity, flexibility and ease of use together with lower energy consumption. This allows us to proudly offer a 2 year warranty on all of our Nastec range, demonstrating our confidence in supplying a highly efficient, high quality, reliable solar pump.

Our Stamps



All of our units are plug and play, reducing costly set up fees and ensuring you can begin using your new system straight away.



We provide peace of mind by testing each and every pump in South Australia before distribution, to help provide a smooth and hassle free installation and start up.



Genuine 2 Year warranty on all Nastec products, with a 10 year warranty on solar panels and arrays. We also give a 25 year linear power warranty.



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VSP

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Sold By

