

WMP

Magazine

Edition
05^{22/23}
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WhisperPower



New
WhisperCare
Roll-out
2023



Smart power systems
help keep the peace

WHISPERPOWER MARCHING INTO SOUTHERN EUROPE

Greening the film industry
with hybrid power

15 | 
YEARS
ANNIVERSARY
CELEBRATION



Enjoy sailing while we take care of your comfort

WhisperPower is your reliable partner in power. For short or long trips, we take care of operating your comfort equipment. Engineered to the highest standards and most stringent emission norms.

Total System Solution

Our flagship product is the OctoPower super silent power system with extended zero-emission operating time. Go to our website to read more about this and our WhisperCare global cloud-based monitoring and control feature.



Enjoy Green Energy

whisperpower.com

Fifteen years and the best is still to come

It is a fine experience, to start a new company and see it evolve and grow to meet clear market demands. WhisperPower emerged from the minor turnover that remained from the generator days of Mastervolt and over the past 15 years has developed into a major international business that sells products in over 40 countries. With a recognisable brand name and a premium range of products and systems, all developed in-house by our very own team, there is much to be proud of.

Not that it's all been plain sailing. The years around 2010 were turbulent, with a wavering economy and a product package that took substantial investments and efforts to transform into the top-notch portfolio that generates such high satisfaction levels among customers today. Acceptance of our new variable rpm generators and hybrid power systems, was a slow process and we suffered from the kind of start-up challenges you'd expect from a new kid on the block. Building our distribution network was also a matter of trial and error but we are delighted to say all this is well behind us now.

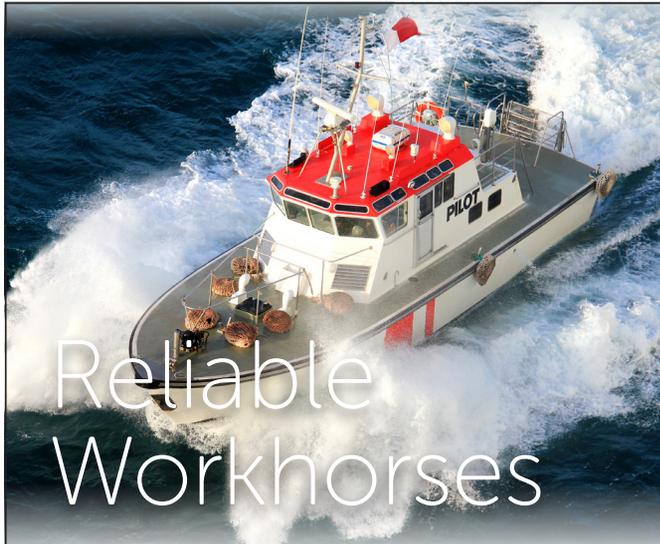
The year 2022 will see us deliver some 30,000 products, parts and systems to buyers from around the globe in a wide range of market sectors. We have enjoyed a growth rate of 40%, partly thanks to the strategic addition of our own in-house developed system software which allows users, operators and service providers to operate their systems remotely. The year 2023 will be marked by the roll-out of WhisperCare, the key to all-inclusive service for users of WhisperPower systems. Our slogan 'WhisperPower. We connect' has never been more apt and whether you are reading this from the recreational or commercial sector, we look forward to offering you power generation at its best in the years ahead. **WP**

Roel J ter Heide | CEO & Founder of WhisperPower

From start-up to global player – a Management Team with firm hands at the helm and a steady course ahead.

From left to right:
Martijn Favot
Johannes Doornbosch
Roel ter Heide
Jan Wildeboer
Junyi Mei
Sjouke van Houten





Reliable Workhorses

WhisperPower is proud supplier of various SAR vessels that rely their power provision on the compact Piccolo and the Classic M-SQ diesel generators.



Auto Start, Load Sharing & Synchronizing
Energy saving by installing 2 x M SQ 27 kVA generators, delivering 54 kVA maximum power when both generators are running, with automatic switch-off of one of the units during low power consumption periods. As standard fitted with smart controls, internet/ GSM connectable and much more features and benefits.

Key features

- Superior sine wave output, AVR controlled
- Electronic governors for optimal synchronization
- Indirect water-cooled 4 cylinder diesel engine
- Extremely low audible noise level



Enjoy Green Energy

For more information:

www.whisperpower.com/diesel-generators



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Saab

Smart power systems help keep the peace



AUTHOR: JOHANNES DOORBOSCH **PHOTO:** SAAB, WHISPERPOWER

The partnership between Saab and WhisperPower to provide smart energy for Saab's field operations began when WhisperPower sales manager Johannes Doornbosch met Taeke van der Meer, support manager for Saab Netherlands.



At the time Saab was still using old-fashioned diesel generators to power various computer systems for moveable objects deployed for training soldiers in the field. The introduction to WhisperPower started a whole new chapter.

"Taeke visited us with a significant delegation to see the system solutions we had supplied to

companies such as Shell/Nam, InfraSolar and many others," Johannes explains. "It soon became clear that we could also resolve their 'problem', namely cutting back on the operational costs of their test facilities – containerised workspaces to train defence specialists.

"The gap between this meeting and the first commission was short as we delivered the initial



WP-BC
Supreme-Pro
24V/100A-3

WP-BC
Supreme-Pro
24V/100A-3

Super Inverter
AC PowerCube 24 | 4000

DC/AC Inverter 250 VAC | 110VAC | 24 VDC | 4000 VA

TANK LEAK
DIESEL

DC Distribution
Hybrid Ion Module Battery Pack

WP-MDC Series
24/12-20
DCDC Converter
Control Panel

WP - Battery Interface Box

WP - Battery Interface Box

Battery module
Lithium Power Plus
4 Batteries | 24 VDC - 315 Ah | 8.4 kWh
whisperpower.com

Battery module
Lithium Power Plus
Lithium LiFePO4 Batteries | 24 VDC - 315 Ah | 8.4 kWh
whisperpower.com



pilot system for use in the Netherlands and Germany within four months. Proof of concept came soon after: the system worked perfectly with fewer emissions (although that wasn't a relevant aspect of the system specifications) and delivered savings that meant the investment would pay for itself in just two to three years. In mid-2022 SAAB Sweden asked us to make a proposal for a larger number of units, including for the training of American and Dutch armed forces. In June this year I travelled to Sweden with a colleague to go over the details and this resulted in a commission to deliver 30 systems in the period 2022 – 2024."

Perfect fit between application and power system
The Saab Combat Training Centre (CTC) monitors every step and action in military training sessions and is at the heart of the training solutions. The CTCs are available as a mobile container, which can be deployed at the point of need, or as a fixed solution placed at a stationary location. It supports up to 10,000 participants and has an area coverage of up to 40x40 km. The uniqueness of this power supply solution is the customisation WhisperPower achieved in close operation with Saab engineers: The WhisperPower solution is based on a Lithium battery pack at the centre of the CTC system. The W-SQ Pro 15 generator only starts when necessary to recharge the batteries again. Two Supreme Pro battery chargers of 100 amp each ensure proper and safe charging of the Lithium batteries. 24 V battery power is utilised by the WhisperPower

AC PowerCube 4 KVA Inverter which provides 230 V / 50 Hz single phase, or dual phase 2 x 120 V / 60 Hz for the systems that are also used by US defence. The operators constantly monitor all CTCs operational in the field via the WhisperCare monitoring system.

In addition to a radically improved ecological footprint, the solution offers cost savings in fuel and fuel supply plus a reduction of engine running time by more than 70%. In terms of operational cost saving, the return on investment is calculated to be less than three years. **WP**

About Saab

Saab is a leading defence and security company with an enduring mission to help nations keep their people and society safe. Empowered by its 18,000 staff, the company constantly pushes the boundaries of technology to create a safer, more sustainable and more equitable world. Saab designs, manufactures and maintains advanced systems in aeronautics, weapons, command and control, sensors and underwater systems. Headquartered in Sweden, the company has major operations all over the world and is part of the domestic defence capability of various nations.

Security secured at zero emission

Innovative partnership with InfraWatch

They've become an increasingly common sight... Small cabins near construction projects, roadworks and open storage spaces, with cameras placed high and linked to the companies responsible for the security. Although these cameras and the communication to which they are connected require power, the security units are generally located in places where no grid connection is available. This makes an autonomous power supply essential for power generation as well as safety.

AUTHOR: THEO KOOPS **PHOTO:** WHISPERPOWER, INFRAWATCH



WhisperPower provides ready-to-use solutions, with 24 VDC and 230 V AC supplied from a WhisperPower battery buffer connected to a solar panel, a charge regulator, an inverter and various system components.

A key consideration here is that solar panels can't provide sufficient energy in winter months to keep the camera system on air. Periodically changing batteries and adding a petrol or diesel generator as a back-up isn't really an option so Dutch company InfraWatch invited WhisperPower to supply a

About InfraWatch

InfraWatch has its origins in the earthmoving company owned by the Algra brothers, well-known entrepreneurs from the north of the Netherlands. Pioneers in mobile camera security, Infrawatch recently merged with Buko Waakt, part of the BUKO group which also includes BUKO Infrsupport. The transaction has enabled Buko to realise a major increase in scale within the growing security market.



sustainable charging solution. The solution was found in integrating a small fuel cell, connected to a methanol fuel tank which is switched on when the solar power is insufficient. The fuel cell units charge some 7 Amps per hour and periodically switch on and off, depending on the power demand. In

addition, a 20-litre methanol fuel supply can bridge the entire autumn and winter period. The first 20 fuel cell systems have recently been installed in the field and we look forward to more such bespoke projects with other forward-thinking companies in the future. **WP**

Zero-emission power solution for the construction industry



Southern Europe welcomes WhisperPower

WhisperPower marching into Southern Europe



Patricio Blanco Villanustra is a key man for WhisperPower in Southern Europe where he serves as area sales manager for this important region. Originally from Argentina, Patricio moved to Spain in 2001 in response to the challenging economic and political situation in his homeland.

AUTHOR: PATRICIO BLANCO VILLANUSTRRA **PHOTO:** WHISPERPOWER

He spent the first three months on a boat sailing the Med, supporting the owner as a crew member. Patricio then started work for Mastervolt Iberica in December 2001 as a generator specialist, leveraging on eight years of experience gained in Argentina working for the company Trimer

"The vast majority had airco systems onboard so needed a generator installed. Whisper gensets, still Mastervolt-branded at the time, became very popular in Spain with the likes of Menorquin, Rodman, Starfischer and Phaeton all installing our equipment."

Demonstration vehicle for Southern Europe

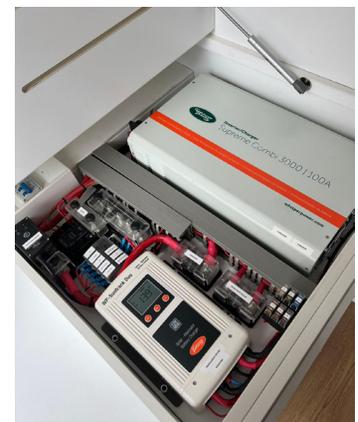
"A large number of yachts were being built in Spain in the period from 2002 to 2008," Patricio recalls.

Learning curve

In 2004 Mastervolt's distribution was transferred to the leading Raymarine importer Video Acoustic, located in Gandia. Patricio and his family moved to the area and he became the Mastervolt product manager. "From this time on I learned a lot more about electrical systems," he says. "I began making system drawings by AutoCAD and selling complete power systems. This, in turn, enabled me to understand more about the systems side of the business and mobile applications."

In 2007 Patricio joined Webasto Iberica as the company's airco specialist but in 2010 was asked by Roel ter Heide to join WhisperPower. "Roel had been my indirect boss at Mastervolt so it was an exciting opportunity to be part of his new company as sales manager for Spain and Portugal. The first years were really challenging as we faced the infamous real estate crisis from 2012 to 2015,





A fine example of the type of exciting projects seen in Southern Europe is the major system for professional marine application purposes being fitted on the 110-metre ocean research vessel Falkor. Scientists from the National Geographic Society

Strong presence in the Spanish market for Recreational Vehicles, at picture complete pre-fab power system of 3 kW

causing a standstill in business and most customers to disappear. We had to switch to survival mode.”

Reaping rewards

After the establishment of the international agreement between WhisperPower International and Webasto International, Patricio moved to the

latter to guide them as a consultant in setting up the WhisperPower products. “This arrangement did not work out the way we had in mind in Spain or internationally and the agreement between Webasto and WhisperPower was ended in 2020. From that point forward I started selling WhisperPower products factory-direct to

"Today we have become the leading brand in these parts of the world".

customers both in Spain and Portugal as well as South America.

"Today we have become the leading brand in these parts of the world and this is the best period of my professional life to date. We are focusing on the right things and reaping the rewards of the time invested. Working in a direct sense with our customers, we have appointed Acastimar as our marine distributor to leave me time to work on projects and industrial markets.

"WhisperPower has a superior portfolio, is increasingly well known and has an excellent product quality. I am also supporting our distribution partners in France and Italy so they can benefit from my 20 years of experience. And since the beginning of 2022 I have a new assistant, Martin Rodrigues Campos, located in Vigo, which is making our presence even stronger."

Seven science labs

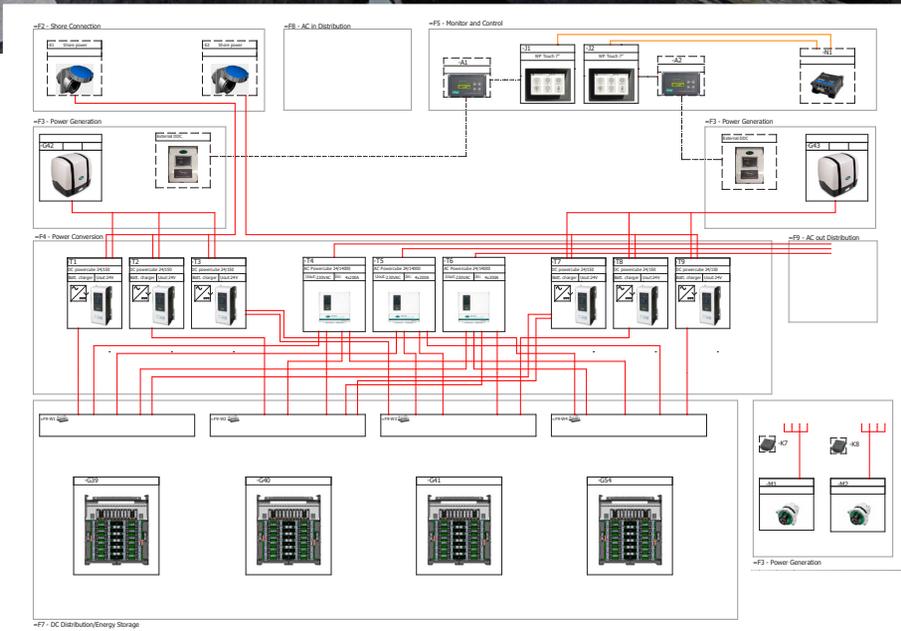
A fine example of the type of exciting projects seen in Southern Europe is the major system for professional marine application purposes being fitted on the 110-metre ocean research vessel Falkor. Scientists from the National Geographic Society will have no less than seven laboratories

at their disposal and WhisperPower has designed two large UPS of 90kWh to back up the computer systems in case the main generators fail.

Four systems are currently being installed, each containing 9 x BC SUPREME 24V/100A battery chargers / power supplies, 6 x 24VDC – kW inverters configured for 30KVA three phase 400VAC/60Hz, with 2 x 22 kW WhisperPower Lithium Power Plus batteries to secure a minimum of one hour's operation without the central generators running. There is full redundancy between the battery banks, battery chargers and inverters, while the load connected to the computer system is 60Kw in total.

Thor of Valhalla

Another innovative system is in preparation for the sea research vessel Thor of Valhalla, currently in Spain for a complete conversion. The client was looking for an OctoPower system to operate the airco systems and optimally reduce the vessel's CO₂ footprint. The system proposed by WhisperPower comprises 3 x AC Power Cube 14kW inverters with two super compact and silent Piccolo DC generators providing 26 kW of charge power (DC Power Cubes 24V/150A) and 4 x 16.6 kW lithium battery banks.



Low emission power system for this research vessel featuring 24 kW of DC charging power and 42 kVA inverter power following a redundant system architecture
Photo: OSC

Mobile projects

Away from the water, WhisperPower has also become the main brand in Spain for manufacturers of specialised vehicles. TECNOVE SL, a company with more than 30 years of experience in manufacturing mobile facilities for television, radio, security and healthcare, has been a customer for years. Patricio and his team recently designed systems for vehicles being used as a mobile bank.

Each consists of 2 x 11.1 kWh lithium battery bank + 2 Elite GV2 DC generators with 1 DC Power Cube and a 7 kW AC Power Cube inverter. The vehicle roofs feature 1240 Wp solar panels with Suntrack voltage controllers, giving eight hours of zero emission operation before a generator is required. WhisperCare was added as the window of control for the fleet manager. **WP**



Van Velzen roadmarking

Staying ahead of the competition

You'll have encountered them everywhere: roads, bicycle lanes, parking spaces, train platforms, sports premises and even at Schiphol Airport: lines, arrows, stripes and surfaces made by the specialist machinery from Van Velsen Reflectielijnen, market leader in the field of road markings with over 85 years of experience.

Van Velsen Reflectielijnen was established in 1935 by Cornelis van Velsen, owner of a paint and wallpaper shop in Bodegraven. An ambitious and practical man, Cornelis decided to put orange 'caps' on white roadside posts to make them more visible. In the mid-1950s he started placing lines on roads with a simple self-designed machine tied to a car with a rope. Roads were getting busier in this era and the lines helped guide traffic. In the following years, Van Velsen Reflectielijnen developed into a specialised company for road markings that provide solutions for any situation and location. Despite now having more than 100 employees, the company has always maintained the character and strength of a small family business. What's more, its pioneering spirit and ambition are as present today as they were at the start.

A step ahead

Because Van Velsen has a high regard for sustainability and also wants to stay a step ahead of the competition in this area too, it started looking for an alternative to the diesel generators that power the boilers in its trucks. The thermoplastic paint used for road markings has to be heated up and stirred. After looking at a variety of suppliers, Van Velsen chose a system from WhisperPower. "It was important for us to embark on this new adventure with a reliable partner," says workshop head René Verweij. "We are not experts in electricity and wanted to be sure we could always reach someone to ask for advice. If one of our trucks stops working this can cause major problems as roadworks always have a very tight schedule. The markings are the final part of the roadbuilding process and we are therefore the last company to

leave the site. Not having proper support can lead to lots of stress as the work must be completed on time."

Reliable

The company decided to first equip one of its trucks with two WhisperPower Lithium modules 48 Volt – 16.6 kWh (315Ah) and three WPC inverter/battery charger combinations to feed the 3-stage consumers via the lithium battery modules. The roof of the truck was equipped with solar panels.

A trial period showed that this solution was ideal for Van Velsen as René explains. "The system works perfectly and we have now equipped two of our trucks. In addition to being beneficial for the environment, we are using much less fuel. Another benefit is that our staff can do their work without the generation of unpleasant smells and noise pollution. Moreover, WhisperPower's experts are reachable 24/7. They can read the system remotely at the slightest sign of trouble and resolve the issue nine times out of ten. On the odd occasions that things cannot be fixed remotely we still have a WhisperPower Elite 8 outdoor diesel generator as back-up."

The plan now is to equip more trucks with the hybrid system from WhisperPower in the future. Sustainability, emissions and reduced pollution are increasingly important to clients such as Van Velsen. "It is our goal to be entirely emission-free in a few years' time," René concludes. "We are therefore delighted to have found a long-term partner in WhisperPower. In addition to supplying a top product, we know that the people behind the company always have our back." **WP**





Greening the film industry with hybrid power

Together with the companies Lichthaus Berlin GmbH and MTD Medientechnik GmbH, WhisperPower has introduced a hybrid system onto the market that can be completely coordinated from one source. This innovation brings sustainability in the film industry a step closer.

A mobile power supply is indispensable when sufficient power is needed at the filming locations for a movie or series, especially as the location is often changed several times a day. It's not just lighting, sound and camera equipment that need power... Catering for the film crew and actors is also a major issue.

Thirsty for fuel

Trucks with large diesel generators are usually used for the mobile power supply. These often run for

10 hours a day, sometimes consuming 300 litres of fuel during this period. At the same time, the older generators do not have aftertreatment so there is always a smell of diesel exhaust in the air.

The new hybrid concept has been built in a Mercedes Sprinter. It includes a diesel generator with exhaust specification StageV and 35kW power, as well as a 32kW LiFePo4 battery bank. Up to 21kW of power can be used directly without a diesel generator for a certain period of time. A combined total



of up to 56kW can be provided when more power is needed.

Ingenious solution

This hybrid solution works fully automatically. The generator starts as soon as the battery bank needs recharging and does so in the shortest possible time. "The system is ingenious and we are very surprised that we hardly use any diesel fuel," says an employee of Lichthaus Berlin GmbH. "The first time we filled up with diesel after a long day of shooting, we were amazed that only a few litres of fuel was required. And it's also great that we no longer have to put up with unpleasant exhaust smells."

"The system is saving us over 80% in fuel costs," adds the company's fleet manager. "The diesel generator only has to provide the necessary extra power for a maximum two hours a day in normal operation."

Meeting demand

Jens Duwe, managing director of MTD Medientechnik GmbH, has various companies in the film industry as customers. "We are glad to have found a partner in WhisperPower with whom we were able to jointly develop and set up this system, which is currently unique for this special market. The list of customers for these systems is long. However, the waiting time for a hybrid system or a StageV diesel generator has also increased enormously in the last two years due to supply chain delays in the vehicle sector and power electronics field. Nonetheless we have always found a suitable solution with our customers to date."

"We have also installed solar panels on this hybrid system and seen a yield of up to 3.5kW per day in the summer," explains Cord Brandt, Sales Manager WhisperPower Germany. "The changing markets also lead us to try to run diesel generators only as

a backup for charging the batteries or when there is a high power demand. Our customers expect systems that are sustainable, as emission-free as possible and very quiet. This innovation certainly delivers that." **WP**



Together we are strong

Marine Energy Systems (MES) and WhisperPower are working closely together on the supply of innovative power system solutions to the key boatbuilding companies in the United Kingdom. The company serves as an important link between WhisperPower and these prestigious boatbuilders by bridging the technical support gap needed between equipment supplier and OEM manufacturer.

AUTHOR: ANDREW ROGERS

MES and its sister company All Boats Services have been B2B distributors and installers of technical equipment and integrated systems to the commercial marine and mobile markets for over three decades.

Main power system supplier to Princess Yachts
Trucks with large diesel generators are usually used for the intensive cooperation with Plymouth-based MES is how WhisperPower became the main supplier of energy systems to Princess Yachts of diesel

New Princess
Yacht X 80





Combined WhisperCare and Boning glass bridge lay-out



generators from 5 – 22 kVA. Two types of generator technologies are being applied. The classic fixed RPM sets operate on 1500/1800 rpm. The all-water cooled ultra-compact adjustable speed models are also installed in TWIN parallel use, enabling a low energy (economy mode) when one generator is running and a high power load, with two units operating in parallel.

The application of WhisperPower's Genverter adjustable speed technology was new to Princess and very well received. The same can be said of the installation of hybrid-based comfort systems that allow silent zero-emission operating periods. The WhisperPower OctoPower systems, the name for these powerful lithium battery-based systems, are industry-leading when it comes to superior on-board green power management.

Amazingly efficient

Paul Bailey, an experienced yacht expert who has worked many years for Princess Yachts, was very



▲ Customized power rack made to measure by WhisperPower

◀ Lithium battery racks based on safe LFP technology – with integrated fire extinguisher

impressed with the OctoPower system installed into one of the first X-80 yachts. "The system works amazingly efficiently, is very powerful and fulfills all the requirements an owner might have. They include night silence with full airco use, anti-roll stabilization at anchorage without running generators, optimal control onboard and remotely over the system, and safety."

Pre-fab approach

WhisperPower excels in the role of a total solutions provider. From the beginning of the project where the specifications are defined to production of components, from assembly and joining of components into a system to the installation of all parts into a system, everything is in one hand. A thorough pre-commissioning of the system is carried out prior to delivery to the boatbuilder. The concluding step is the final test run at the yard, with WhisperPower staff in attendance. **WP**

The OctoPower 25 system installed in a Princess X-80 built for an international client consists of the following components:

- 110 kWh Lithium Power Plus (LFP) battery bank, 48 VDC, complete with DC distribution and DC fuses to ensure safe operation.
- 30 kVA 3 phase 60 Hz inverter/charger system to operate AC loads during silent time and charge batteries when running generator
- WhisperCare monitoring and control bus integrated with Boning power system control system.



All-In-One Power System OctoPower 3

Generator replacement system for marine, mobile and offgrid applications | 3000 W

WARNING
Read the manual before use.
Model A is equipped with a BCI 10 AC power inverter.
Equipment must be used in accordance with the
manufacturer's instructions.



Boote Polch

“Perfect power solution to operate A/C and other comfort appliances”

We recently had a conversation with Patric Polch, owner of Boote Polch, in Traben Trarbach, in the heart of the Moselle region, in Germany. Boote Polch is a renowned shipyard that imports a number of boat brands including Nimbus, Axopar, Paragon and Brabus. All of them are sportive boats, mostly sailing all over Europe. A few months ago we delivered to Boote Polch one of our new zero-emission power systems, the OctoPower 3, with a 230 V - 50 Hz power output of 3 kW and a battery capacity of 10 kWh.

“Immediately after delivery, I installed the system in our 41 ft day-cruiser, equipped with 2 outboard motors. I had the yacht transported to the Mediterranean Sea, at the beginning of August, to test sail this beautiful new boat, equipped with this promising OctoPower 3 system. I mounted three solar panels and linked the two outboard motors to the WhisperPower system. We sailed intensively for a fortnight, hardly ever went ashore, so no land connection and anchored a lot. It was warm, but the air conditioning provided coolness. We had enough power to keep it nice and cold. The drinks stayed cool and to cook with our 230 V electrical induction hob was better than we ever expected. We hardly went out for dinner during this covid-19 time.

I am convinced that the OctoPower 3 is a perfect alternative to a diesel generator for this type of boat. I also told this to my suppliers, including Axopar. The WhisperPower system is quiet, powerful, retains power for a long time and quickly recharges via the outboard alternators.” **WP**

Shipyard De Alm Jachtbouw in Waalwijk (NL)

Endless possibilities at De Alm

AUTHOR: SANJA NEELE-SPERLING

Shipyard De Alm Jachtbouw in Waalwijk (NL) was established in 1977 when Cees van Maastricht and Chris Dolislager made the bold decision to start their own business. What began as a hobby in a warehouse next to Cees' home 45 years ago has now grown into a yard where top quality is seen as a tradition.

De Alm Jachtbouw is today considered part of the top of the Dutch yachtbuilding sector. Ranging from 10 to 30 metres, its steel yachts are renowned for their perfect finish and superior performance on the water. The yard was taken over some years ago by Cees' son, Jacco van Maastricht.

Unique in own way

De Alm builds various models, each unique in its own way and all made to meet specific wishes and demands. This exclusivity means the yard only builds a limited number of yachts each year. Although the layout of the models is pretty much set, nearly everything else can be fully customised,





from the engines, the colour of the wood and the furnishings to small adaptations to the hull and onboard technology. Because the hull is as good as finished in advance, a ready-to-sail yacht can be realised in a relatively short time. "Every Alm yacht is a unique floating home that is suitable as permanent accommodation or long stays on board" says Jacco. "Our clients are all different, and so are our yachts. We can always find a suitable solution based on previously built boats or ideas from the client. We love facing new challenges and our starting point is that everything is possible."

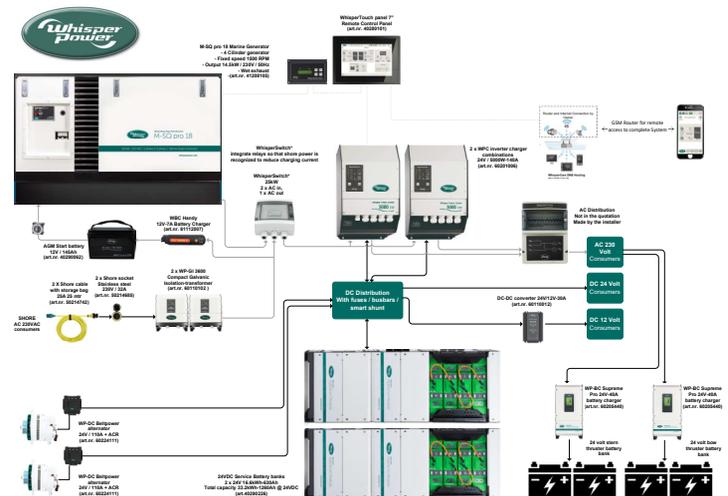
Always power

This philosophy was the basis for the hybrid Almtrawler 1450 which has a 5 mm steel hull and a 4 mm steel superstructure. The yacht has a length of 14.37 metres, a beam of 4.90 metres and weighs around 28 tonnes. Propulsion is comprised of two Iveco NEF 150 engines. "This model was already in existence but the client wanted to be able to stay onboard for long periods without depending on shore power or a diesel generator," Jacco explains. "We started looking for a way to achieve this and immediately knew who to contact." WhisperPower has been a reliable supplier for generators, batteries, inverters and the like for many years. "We shared the challenge and took a hybrid vessel on a sea trial," Jacco continues. "WhisperPower developed a complete system for us based on the client's wishes. We then went over it with our own electricians who finetuned it to perfection."

Future-proof

As always with the first time a new system is tried out the yard was excited to see whether everything would go as planned. According to Jacco, the collaboration with WhisperPower went perfectly. "While there were of course bound to be minor issues at the start, the company dealt with them expertly. Everything was resolved to our complete satisfaction and that of the client." Small wonder then that the yard is looking to install hybrid propulsion on more yachts in the fu-

ture. Demand for such systems is growing among clients and the world of watersports is increasingly aware of its ecological footprint. What's more, Jacco believes this is a good way to continue to grow as a business and become future-proof. He sees major opportunities in Scandinavia, for example, where WhisperPower is also looking to expand. "This means our partnership will be mutually beneficial to both companies as we enter new markets together." **WP**



The system WhisperPower developed includes a modular lithium battery bank of 24 volts (33.2 kWh) with two WPC 24-volt 5000-watt 140-amp inverter/battery bank combinations to silently power the onboard consumers via the modular lithium battery bank. Should the battery bank be empty, a M-SQ PRO 18 kVA diesel generator can power the entire yacht. The battery bank recharges quickly even when the generator is on or when the yacht is connected to shore power. The two isolation transformers have a shore power connection of 32 amps in total and provide a safe AC (230V) voltage onboard. In addition, the bow and sternthruster batteries are equipped with two Supreme PRO 24-volt 40-amp battery chargers that load the batteries when the generator is running or when shore power is available. In addition, there are extra alternators on the main engines of the yacht to charge the battery banks when sailing.

This is the Earthling calling:

The ultimate e-prop system

WhisperPower CEO Roel ter Heide visited our WP Pacific partner John McGettigan in Auckland in October. They spent some time on the Earthling E40, a 12-metre power catamaran which is rapidly proving to be the new gold standard in e-propulsion.

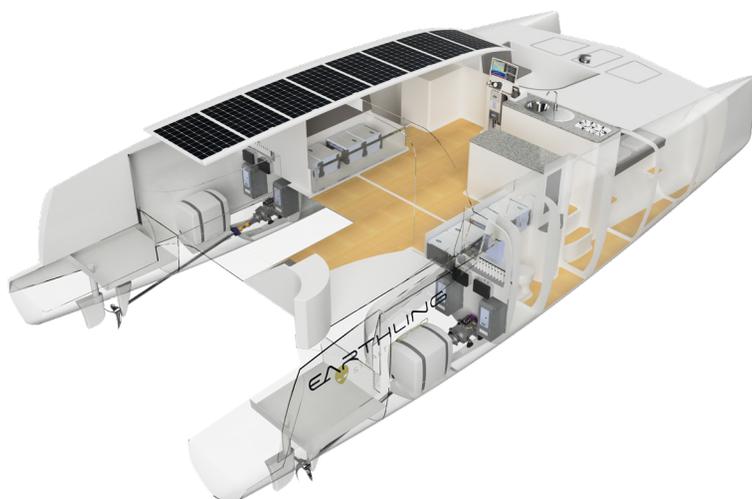
AUTHOR: JOHN MCGETTIGAN



John has succeeded in building a stunning electrically propelled 40-foot motor catamaran using the very latest technology in this rapidly emerging market. His company www.Earthling.co.nz has integrated the best available technologies in a simple supported solution that is targeting marine pleasure and light commercial applications up to 60 feet.

Sailing without sails

What made John build this highly advanced e-cat?



"Having previously sailed catamarans with noisy diesel drives I've always wanted to build a boat like this. During its development the concept of 'sailing without sails' was born out of a desire for silence and simplicity. I didn't want to be dependent on diesels to run the boat, only as a backup. The Earthling E40 offers a peaceful experience at a gentle 10 to 12 knots.

"Many yachts nowadays are high-powered with diesel or petrol inboard/outboard engines because owners are not interested in enjoying the passage – they simply want to get from A to B as fast as possible. Going fast isn't fun in my opinion – the wind blows your hair all over the place, there's lots of noise and you're breathing in exhaust fumes. Pure sailing can also be a drama when you're relying on the wind and I want to enjoy my time and company onboard without any hassle. The Earthling E40 is designed for just that, with my guests enjoying the space of the expansive flowing decks without ropes noise, smell or spray."

Game-changing narrowboat project

Cut emissions

WhisperPower is partnering with UK custom-engine builder Barrus on an industry-first project to help address the 940 million tonnes of CO₂ emissions for which the marine sector is responsible annually.

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The project involves developing a narrowboat powered by a hydrogen fuel cell and 48V 22.2 kWh hybrid battery system. It will be deployed as a test vessel to probe the commercialisation of hydrogen technologies in the marine sector. The fuel cell will be provided by Bramble Energy, a tech start-up which has secured more than a million euros from the UK government's energy entrepreneurs fund.

Fuel cells coupled with systems like WhisperPower's innovative designs are one of the most promising technologies for decarbonising the maritime

sector. In addition to extending the range of pure battery systems, the fuel cell removes the reliance on a charging base. A cutting-edge WhisperPower LifePo4 lithium battery system will enable all power onboard the vessel to be produced silently and cleanly. End users will enjoy creature comforts along with the peace of mind that comes from being environmentally friendly in the process.

Century of innovation

"Barrus has been championing innovations within the marine industry for more than a century," says the company's managing director Robert Muir. "This





has included developing electric and diesel-electric hybrid power plants for the inland waterways market. This new project is the first medium-sized range, zero-emission, commercially viable solution for inland waterway vessels. We are delighted to partner with Bramble Energy and WhisperPower to decarbonise our inland waterways via this game-changing project which will advance the knowledge of safe integration and hydrogen fuel cell operation in marine environments."

Barrus is leveraging on WhisperPower's sustainable energy storage systems and smart power electronics to provide a fully integrated power system in the test vessel. It will be driven by an experimental 15 kW motor, powered by a hydrogen-electric series hybrid powertrain consisting of a 22 kWh battery system and 10 kW hydrogen fuel cell. Charging for the system will be further subsidised by 12 solar panels on the vessel's roof.

Ready to connect

The WhisperPower system will utilise two of the new ION Power Plus 11.1kWh - 48V/210h Battery Towers, designed and built in the Netherlands. The Lithium Power Plus modular battery rack system is lightweight and comes in a modular design for horizontal or vertical mounting. Pre-installed busbars and cabling make the system ready to connect, greatly reducing installation times.

The smart narrowboat system will also feature WhisperCare, the all-new cloud-based monitoring/control and communication device which allows full control over the WhisperPower system, onboard or remotely. Displaying all essential information about the vessel's energy system at a glance, it will be connected to the WP 7-inch touch panel. System information can be

obtained remotely from a computer, tablet or cell phone over the cloud anywhere in the world. The cloud-based monitoring system will alert the user via text message or email but also utilises a traffic-light-based 'at a glance' map to show the system's current status.

Looking good

Finesse Narrow Boats, which has developed an impressive electric motor for inland waterways, is providing advice to Barrus on integration with the battery system and fuel cell. Barrus is also working closely with L&J boats and WhisperPower to meet the system requirements of hydrogen power while still retaining the traditional look that is so popular among narrow boaters. The vessel makes use of a Tipton-style cabin just behind the bow to house a complete hydrogen package including thermal recovery. This is completely isolated from the rest of the boat in the interest of safety. The build is expected to be completed towards the end of this year and testing will be carried out in the inland waters around Sheffield. **WP**

Strong presence during exhibitions. At picture: Southampton Boat Show 2022.



New product

Developments & Innovations

Significant additions to Genverter range

WhisperPower continues to expand its range of exceptionally quiet and compact generators. The Piccolo 6 SC is a very small and lightweight model that takes up little space and easily fits into every 35-to-45-foot sail or motoryacht. Although the new addition is 10 centimetres lower and 14 centimetres shorter than other models, it offers just 0.4 kW less power. The fully water-cooled, variable rpm Piccolo 6 SC bridges the gap between the Piccolo 5 (4.4 kVA) and Piccolo 8. Its dimensions are 54 x 47 x 52 cm (hwxwd), with a weight of 145 kg, and the Piccolo 6 SC is fitted with a two-cylinder diesel engine that complies with Stage V/ EPA Tier 4 emission standards.



Piccolo 6

As a larger variant of the Piccolo 15 (12 kW) we are also developing the Piccolo 18, based on a four-cylinder diesel engine in accordance with Stage V/Tier 4. The fully water-cooled unit (engine and permanent magnet back-end) supplies 15 kW at an rpm of 2400 (rpm is adjustable between 2000 and 2400) at a size of 70 x 560 x 99 cm (hwxwd) and weight of 187 kg. All Piccolo models can be parallel-connected in a twin setup to double their capacity.



Piccolo 18

New products for the retail/ consumer markets

For DIY end-user and small boat OEM's, WhisperPower supplies a wide range of high-quality inverters, combi's, battery chargers, solar panels, solar controllers and a lot more. New high class sine wave inverter/chargers have been added to the program: the powerful Supreme Combi 12/2000 -80 A, the new Supreme Combi 12/3000 - 100 A and a 24 VDC 3 kW version. All of them connectable to one of the three WhisperCare remote monitoring systems.

From 2023 on, all products come in stylish green retail packaging, ideal to offer as "the green energy wall" in shops and showrooms.



Next-generation WhisperCare monitoring & control

WhisperPower has built up a strong reputation as a total supplier of smart energy systems that can be remotely read and partially remotely controlled. The newly developed WhisperCare 2.0 software takes a major step towards the option of linking all products and systems based on 12, 24 and 48 VDC basic voltage to mobile phones, tablet PCs or other devices with internet access. Integrating and reading systems remotely via the cloud on laptop, tablet or smart phone is gradually becoming the standard on yachts and professional vessels and in vehicles.

Developed by WhisperPower engineers, the new WhisperCare monitoring and control telematics software enables systems to be easily connected to existing screens, including those for navigation or controls. It involves three connection units for smaller and larger systems. The small OctoControl Gateway is supplied with a built-in SIM card to allow the linked devices such as solar, battery and inverter/battery charger to be monitored via the cloud. The OctoControl Basic allows you to connect a complete WhisperPower system to screens from Raymarine, Garmin, Navico/Simrad, Furuno and more. In addition to linking the WhisperPower system to these third-party screens, OctoControl Pro allows control and monitoring via the cloud using any type of router and a SIM card purchased by the user. One of the main functions of WhisperCare 2.0 is the system diagnostics data that can be provided

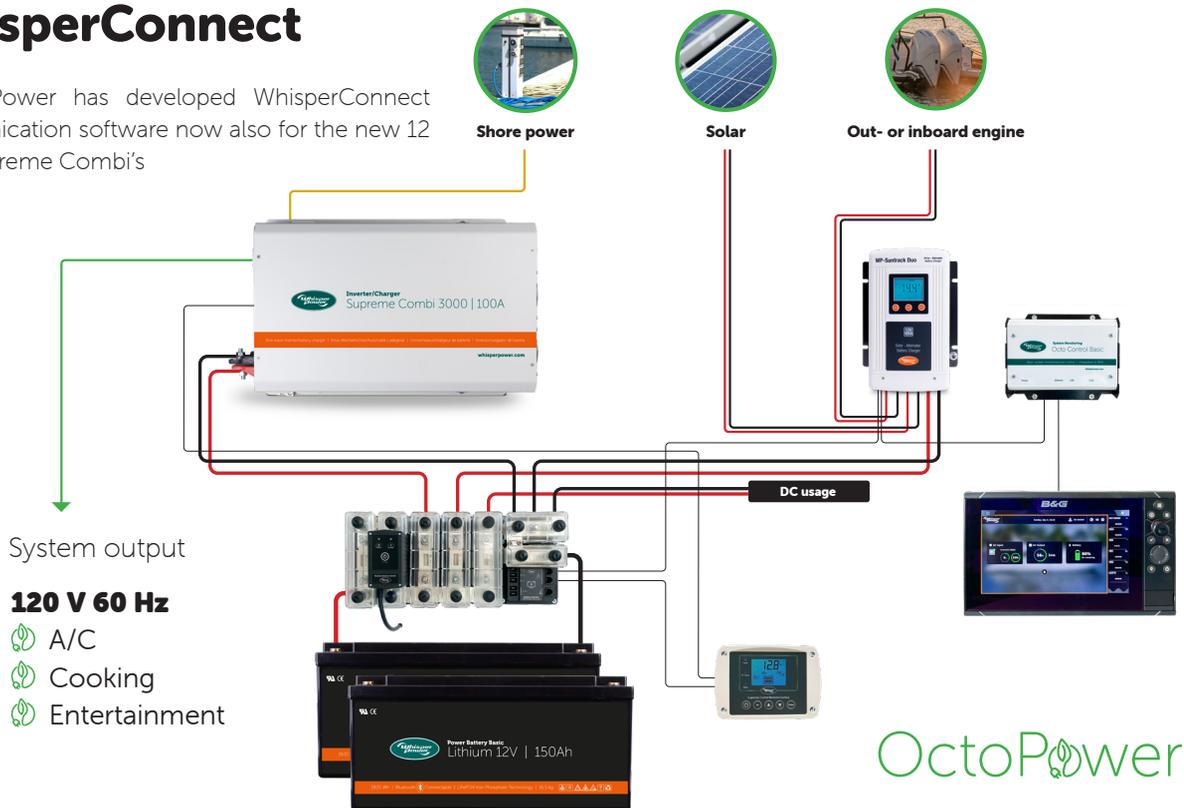


historically and in real time, plus a variety of active alarm functions (alerts) for any installed WhisperPower device. The remote service and support also make providing technical support easier and far less costly.



WhisperConnect

WhisperPower has developed WhisperConnect communication software now also for the new 12 VDC Supreme Combi's





Complete independent power system...

So why not use your shore connection cable for another purpose?



At WhisperPower we are driven by a distinctive challenge: our systems are only seen as perfect when you can neither see nor hear them. All our innovation efforts are geared towards creating silent and low emission electrical power systems ensuring optimal freedom and comfort.

Go to www.whisperpower.com for more information



Enjoy Green Energy