

# Propulsion & Power Solutions

By Fischer Panda



Fischer Panda

# Pioneers In Innovation, Service, And Quality

**Fischer Panda – your source for leading energy solutions, propulsion systems, and seamlessly integrated energy management.**

With top-tier generators, electric propulsion units, and advanced energy consulting, we deliver tailor-made solutions that exceed the highest standards of quality, performance, and energy efficiency. Benefit from nearly fifty years of industry expertise by choosing Fischer Panda. Fischer Panda has been the preferred choice for customers looking for outstanding innovation, service, and quality.

Our unwavering commitment to quality is reflected in the use of top-tier materials and stringent quality control procedures. Enjoy unparalleled customer service through our extensive global network of dealers and service partners. Committed to sustainability, we offer environmentally friendly solutions that surpass the highest emission standards. Collaborate with our experts for customized solutions, making Fischer Panda the preferred choice for those seeking the pinnacle of innovation, service, and quality.



## Compact. Light. Quiet.

Fischer Panda's water-cooled diesel generators are renowned worldwide for their efficiency, reliability, and exceptionally quiet operation. Their design is compact and lightweight, while ensuring very low operating noise and minimal vibration.



Compact

## Eco-Conscious Solutions

Silent, emission-free and powerful. Our electric propulsion units combine expertise with high performance that meets the highest environmental standards.

Fischer Panda generators are ready for use with all EN15940 paraffinic fuels without modifications or extra maintenance. Variable speed control considerably reduces exhaust emissions and fuel consumption in comparison with a traditional generator.



Light

## Tailored Products & Services

With our range of electric propulsion units and generators, we have the ideal solution for your project. Our experts work closely with you from design to implementation for maximum energy efficiency and performance. The result is a bespoke concept that is in tune with your needs, down to the last detail.



Quiet

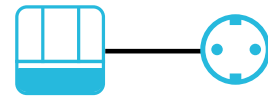
## AC Generators

Our AC generators feature a very effective cooling system, ensuring temperatures inside the sound insulation capsule remain within an acceptable range even in tropical conditions.

**iSeries** Generators with variable speed for reduced fuel consumption, quiet operation and less exhaust emissions. These have an external inverter that adjusts the engine speed to match the load. This can significantly reduce fuel consumption. When compared to asynchronous generators of the same class, these generators are up to 50 % lighter and allow up to 30 % space savings. iSeries generators of different sizes can be connected in parallel.

Compact power **xSeries** asynchronous generators are suited for applications requiring continuous power and high starting capabilities with a very stable voltage supply. The compact power generators operate at a regulated speed of 3000 rpm (50 Hz) or 3600 rpm (60 Hz).

AC generators are available in a wide range of voltages:  
50 Hz ~ 230 V / 400 V and 60 Hz ~ 120V / 2 x120V-240 V / 230 V



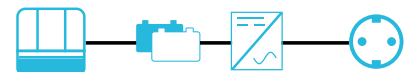
## DC Battery Charging Generators

Our Powerful **AGT-DC** generators ensure battery-banks are kept charged and allow larger consumers to operate for short periods during the day if an inverter is being used.

The AGT-DC generators are a powerful battery charging solution. These allow for extended trips; ensuring the battery bank is kept fully charged while at sea.

When used in combination with a combi-inverter, AC consumers can be supplied via the house battery bank for short periods (depending on capacity). The generator operates to keep the battery bank charged. Most load profiles can be supported by running the generator 2-3 times a day for 30-minute periods.

AGT-DC generators are available with 12 V / 24 V / 48 V  
(other voltages on request)

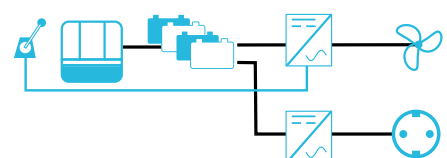


## Variable-Speed DC generators

Variable-speed **Hybrid-VS DC** generators have been especially designed for electric propulsion on board. These generators are compact, quiet, powerful and economical. They are characterized by their modern, innovative and electronic regulated hybrid charger which allows a wide RPM range at constant voltage. This technology is a further step into green motion of electric propulsion.

Variable-speed Hybrid DC generators feature:

- Small size and low weight- compact installation
- Highly efficient - maximum energy
- Variable speed - load-dependent
- Easy to install - no forced-air circulation required in machine room
- Environmentally friendly - low fuel consumption

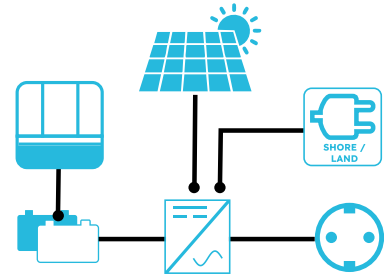


## Onboard Power Systems

The generator plays an important role within an energy system as it is usually the largest supplier of power. It is not usually required to operate continuously around the clock. When demand is low, electricity can also be obtained from other energy sources such as solar, wind, a shore connection or a battery bank. A combined energy system ensures that the generator is not used at low loads and helps to reduce fuel consumption.

Battery chargers and inverters are also indispensable in the power supply system, e.g. for energy conversion. They determine which energy sources are suitable for supplying which consumers or how quickly their power sources can be recharged.

The modern inverter plays a central role in the complete energy system. The latest “combi-inverters” offer many additional functions. They combine inverter and charger in one unit. They form a power management function by combining power from generator, battery and shore power as required.



## Electric Drive Systems

Podded (underwater) and Shaft motors are available in a range of versions up to 20 kW / 48 V. The 48 V electric drive motors meet all basic requirements of the applicable European directives and standards. They are operated in the safety extra-low voltage range. This guarantees the highest possible safety for the application and installation.

Electric drive systems suited for leisure and sport boats as well as for commercial applications such as transport ferries, commercial workboats and passenger ships.

Motors can be mounted in parallel to function as an “auxiliary drive” with an existing drive shaft with a conventional drive system (combustion engine / transmission), cruising and manoeuvring at very low speeds without running the engine. No modifications to the drive train are necessary.

High-voltage systems from 50 kW (360 V to 420 V) are also available.



## Integration And Communication

To function efficiently, modern marine electronic systems gather information, communicate and share data with numerous devices (including generators). These systems can monitor loads, battery levels and can start or stop a generator as required. Fischer Panda generators communicate with a wide range of chart plotters and multi-function displays. This makes it easy for skipper to access and display important generator data such as voltage, current, frequency and power. Technicians can also access logging information for diagnostics whilst servicing the generator.

It is possible to connect Fischer Panda generators to the most common chart plotters. Communication is available for RAYMARINE, Garmin, B&G, Lowrance and Simrad.

Fischer Panda generators can be connected using a communication interface in various ways using NMEA2000 or SAE-J1939.





## Service And Support

### Installation kits

Installation kits with all the necessary cables, hoses, connection pieces and accessories to ensure that the system can be correctly installed in a yacht's engine room or area within the hull.



### Service kits

Service Kits include only original spare parts which meet their required specifications. The service kits are suited for the type of servicing normally carried out by workshops.

Service "Plus" Kits include only the original spare parts which meet their required specifications and all the relevant spare parts for the for service intervals up to 600 h. These kits are supplied in a handy plastic box so all the items are protected while storing.



### Worldwide Dealers And Services

With a coordinated network of distributors, dealers and service stations, Fischer Panda has trained specialists and a worldwide dealer network ready to help, advise and recommend the best service station depending on your location of your vehicle or yacht. They will also be able to organise and coordinate resources and parts so we can provide you with the best service - wherever you are.





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