



Fischer Panda VS "variable-speed"
Hybrid DC Generators
for all electric boats



 **Fischer Panda**[®]
Power wherever you are[™]

Fischer Panda *variable-speed* Hybrid DC Generators *for all electric boats*

The Fischer Panda **variable-speed** Hybrid 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.

Opposite to the conventional ship's engine where the propeller is attached mechanically, the independency between RPM and output power of the **variable-speed** Hybrid DC generator enables the engine to run on the required propeller power. This allows significant fuel savings especially at both low and medium loads.

The **variable-speed** Hybrid DC generator is available in various output voltages up to a current of 300 A and an output power of up to 100 kW

An autostart function prevents the batteries from being drained.

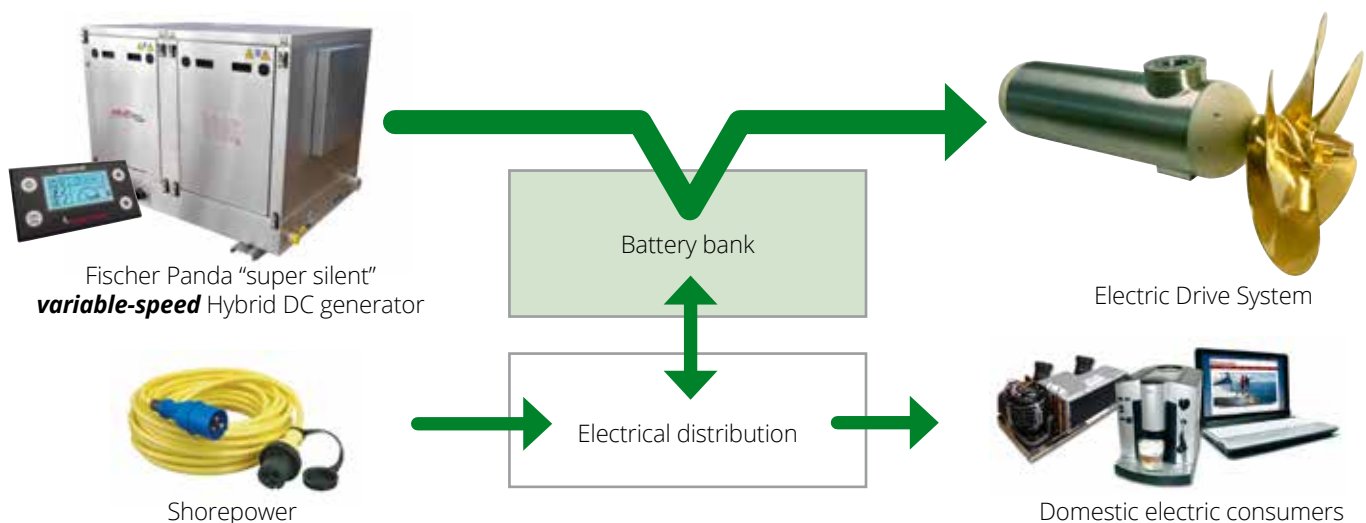
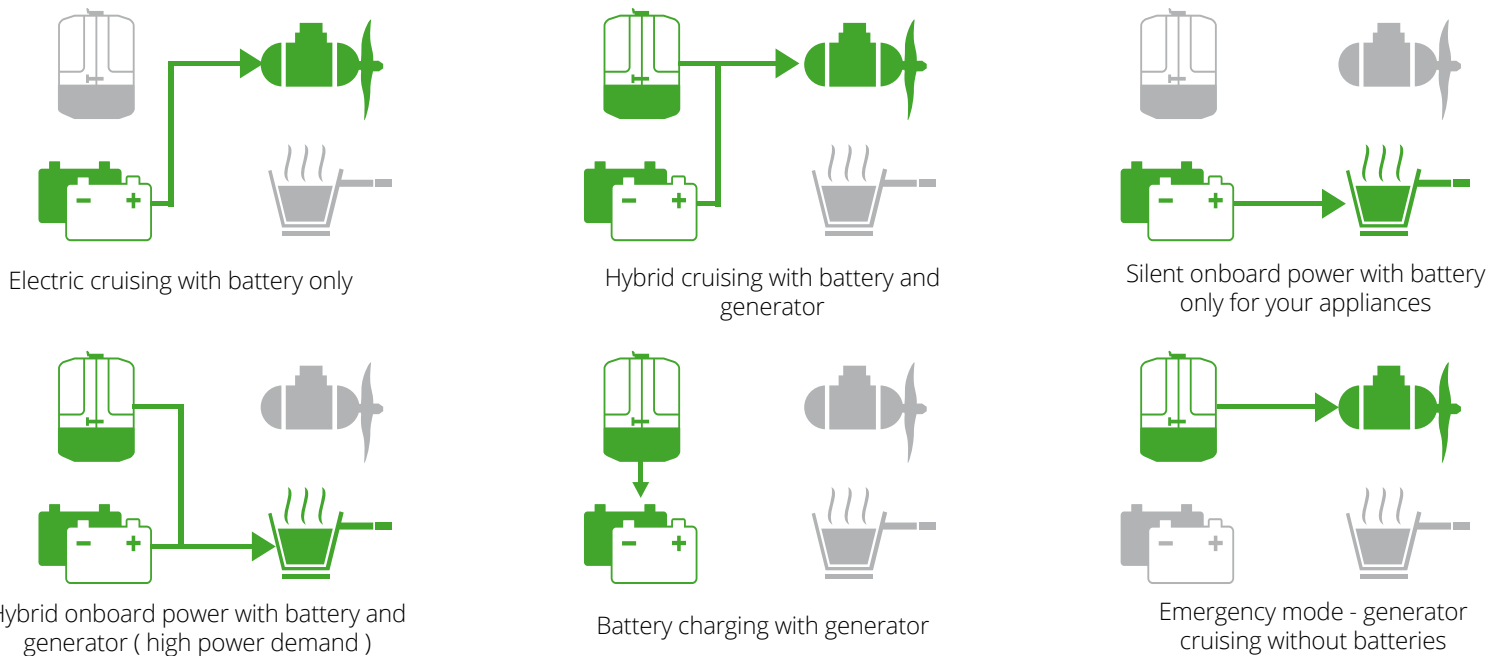
A CAN bus connection transfers and receives information from a ship's control system.

The new Fischer Panda "super silent" **variable-speed** Hybrid DC generator provides you the comfort for nearly endless electrical cruising (if required).

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
- Digital display – up to date all the time

The multi-usage of your electric propulsion allows:



The Fischer Panda generator control system provides generator and electric system information:

- Temperature data
- Generator power
- Power into or from the battery
- Electric propulsion power
- Remaining runtime of the batteries*

* Information provided by the Battery Management System (BMS)



Model		Panda 20-VS PMS	Panda 30/35-VS PMS	Panda 45-VS PMS	Panda 75-VS PMS	Panda 100-VS PMS
Approx. capsule dimensions excl. fittings (L x W x H)	[mm]	840	1130	1313	1250	1250
		515	660	800	900	900
		661	810	892	950	950
Weight	[kg]	245	499	595	970	970
Sound level ¹⁾ (7m / 3m 1m)	[dB]	55 / 60 / 70	54 / 59 / 69	55 / 60 / 70	56 / 62 / 71	57 / 63 / 72
Cooling system		Dual circuit freshwater cooling via heat exchanger				
Standard capsule		GFK 3D	MPL 4DS	MPL 6DS	MPL 6DS	MPL 6DS
Performance						
Nominal output	[kW]	20	35	45	75	100
Charging voltage	[V]	300-500	300-500	300-500	300-500	300-500
Max. current **	[A]	66	116	150	250	333
Regulation		electronic - performance or voltage or current				
Control						
Starter system		12V electric start				
Autostart		integrated				
Remote control panel		Panda fpControl with digital display				
Charger		Hybrid Charger (external)	Hybrid Charger (internal)	Hybrid Charger (internal)	Hybrid Charger (internal)	Hybrid Charger (internal)
Charger cooling		water-cooled	water-cooled	water-cooled	water-cooled	water-cooled
Engine						
Engine manufacturer		Kubota	Kubota	Hatz	Iveco	Iveco
Engine type		V1505	V2403T	4H50TIC	S30	S30
Engine displacement	[cm ³]	1498	2434	1952	2998	2998
Speed	[rpm]	1200-3000	1200-2800	1200-2800	1200-2500	1200-3000

** max current depending on the output power and voltage

¹⁾ Sound levels are preliminary levels only. Fischer Panda GmbH reserves the right to alter technical specifications without prior notice.



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compact



light



quiet

Disclaimer: The information contained here is to the best of our knowledge accurate at the date of publication. Please note that the data in this publication reflects the technical state at time of print. Dimensions apply for the sound insulation capsule only and do not include latches or fittings etc. Additional room will need to be calculated for the installation to include hoses, cables and capsule mountings. Additional components or alternators may also affect capsule dimensions. Due to our policy of continual product development, we reserve the right to alter technical specifications without notice.

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