iSeries Marine Generators for Superyachts

Variable Speed Technology - The iSeries Generators

The Panda iSeries generators have been especially designed to be compact, quiet and powerful - with up to 30% weight and space savings! They are ideal for superyacht owners looking for a night generator with low operating sound levels and vibrations. The generators are characterised by their modern, innovative and environmentally friendly inverter technology. The generators can be connected in parallel and synchronised - no additional cables are required.

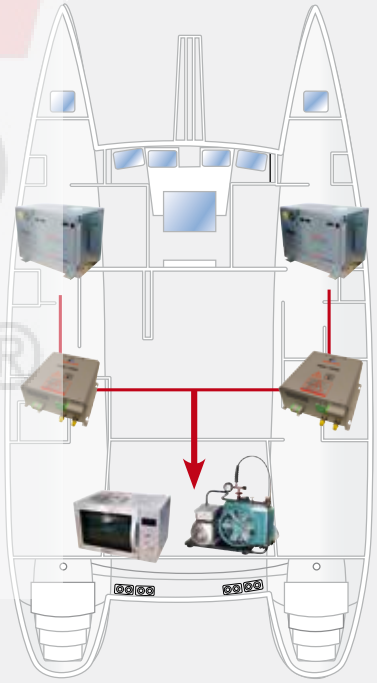
The speed of the diesel engine is adjusted according to the user's changing power requirements while the output voltage always remains constant from the inverter. Variable speed control considerably reduces exhaust emissions and fuel consumption in comparison with a traditional generator with a fixed speed. The maximum speed of the engine is 2800 RPM. The electric load is provided with a constant output voltage of 230 V / 50 Hz or 400 V / 50 Hz via an inverter.

- Small size and low weight- compact installation
- Highly efficient - maximum energy
- Variable speed - load-dependent

- 230 V / 400 V AC output - reliable power supply
- Pure sinus wave is ideal for sensitive electronics
- High starting capacity for air conditioners / diving compressors

- Easy to install - no forced air circulation required in machine room
- Environmentally friendly - low fuel consumption
- Digital display - up to date at all times

The iSeries generators are fitted with the renowned Fischer Panda sound insulation and water cooling.



Parallel connected iSeries - the high performance solution for even more comfort and safety

Several iSeries generators of different types can be easily connected in parallel. Extra cables or additional cabinets are not required. Each generator is fully independent and can be individually operated.

- Multiple generators can be easily connected in parallel - even if they have different outputs
- Load-Sharing: both generators are equally loaded when operating in parallel
- Ideal for applications (multihulls- catamarans, trimarans) which may benefit from installing various smaller generators to improve weight distribution

Model		Panda 25i PMS	Panda 45i PMS	Panda 60i PMS	Panda 150i PMS
Approx. capsule dimensions excl. fittings (LxWxH)	[mm]	840 x 520 x 664	1130 x 660 x 810	1430 x 720 x 880	1480 x 890 x 920
Weight	[kg]	220	560	770	1100
Sound level (7m / 3m 1m)	[dB]	54 / 59 / 69	54 / 59 / 69	55 / 60 / 70	55 / 60 / 70
Cooling system		Dual circuit freshwater cooling via heat exchanger			
Performance					
Nominal output	[kW]	0-20.0 (25 kVA)	0-36.0 (45 kVA)*	0-48.0 (60 kVA)*	0-120.0 (150 kVA)*
Continuous output	[kW]	0-18.0*	0-32.4*	0-43.2*	0-108.0*
Output voltage	[V]	230 V or 400V	400 V	400 V	400 V
Voltage stability	[%]	± 3%	± 3%	± 3%	± 3%
Frequency stability	[%]	50 Hz ± 2%	50 Hz ± 2%	50 Hz ± 2%	50 Hz ± 2%
Voltage regulation		electronic			
Frequency regulation		electronic			
Control					
Starter system		12V electric starter			
Autostart		integrated			
Remote control panel		Panda iControl digital display			
Inverter		Panda PMGi 25	Panda PMGi 45	Panda PMGi 60	Panda PMGi 150
Inverter cooling		water-cooled	water-cooled	water-cooled	water-cooled
Inverter weight	[kg	18.9	mounted	mounted	mounted
Inverter dimensions	[mm]	420 x 350 x 170	inside capsule	inside capsule	inside capsule
Engine					
Engine manufacturer		Kubota	Kubota	Various	Various
Engine type		V1505	V2403T	4-cyl diesel	4-cyl diesel
Engine displacement	[ccm]	1498	2434	2500	3000
Speed	[UpM]	2200- 2800	1500-2700	1400-2600	1400-2600

Disclaimer: The information contained here is to the best of our knowledge accurate at the date of publication. All products are subject to continuous development and Fischer Panda GmbH reserves the right to alter technical specifications without prior notice.

*) cosPhi 0,8 up to 40°C ambient temperature, other cosPhi 1 up to 50°C
**) cosPhi 0,8 up to 40°C ambient temperature, other cosPhi 1 up to 45°C