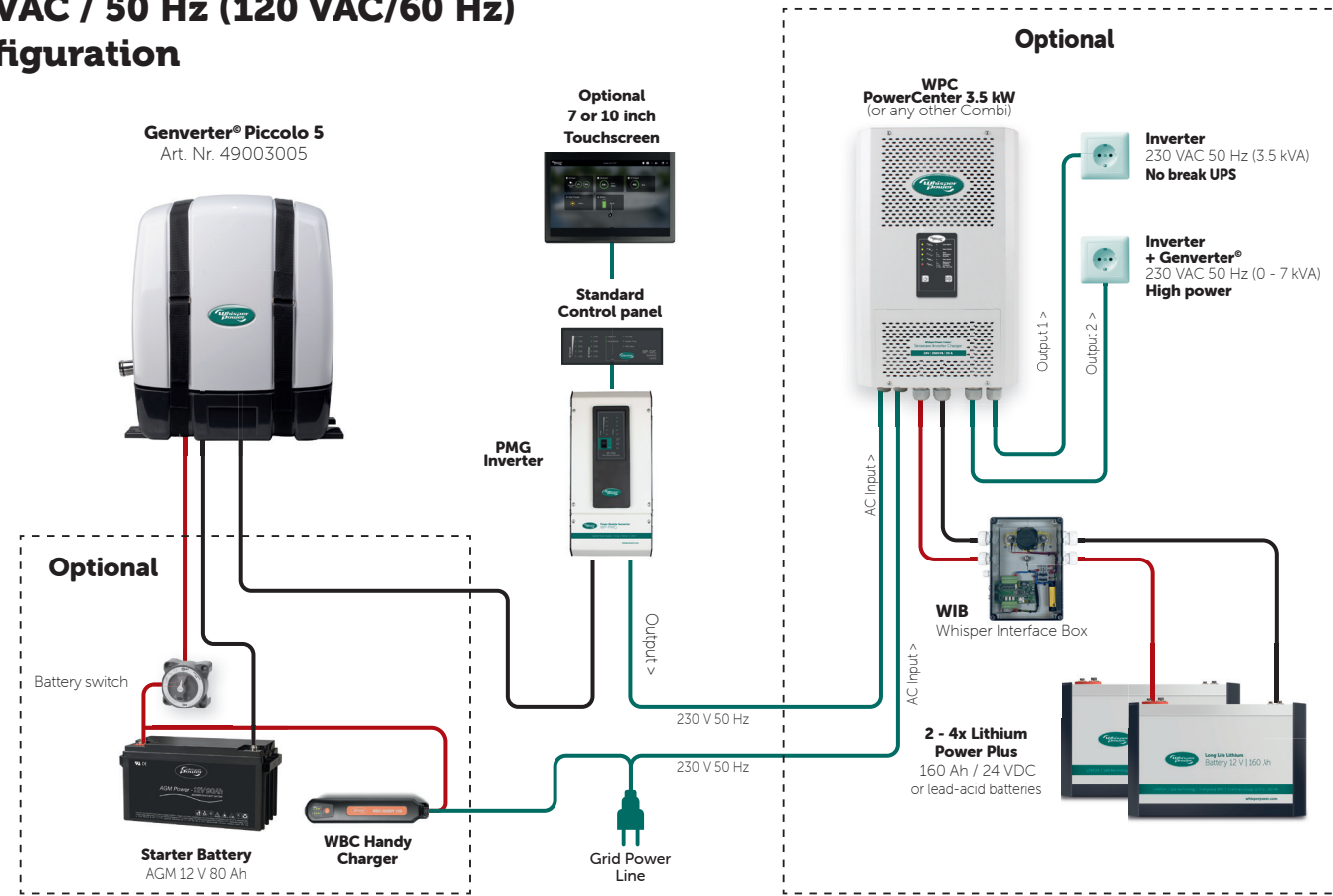


System variations

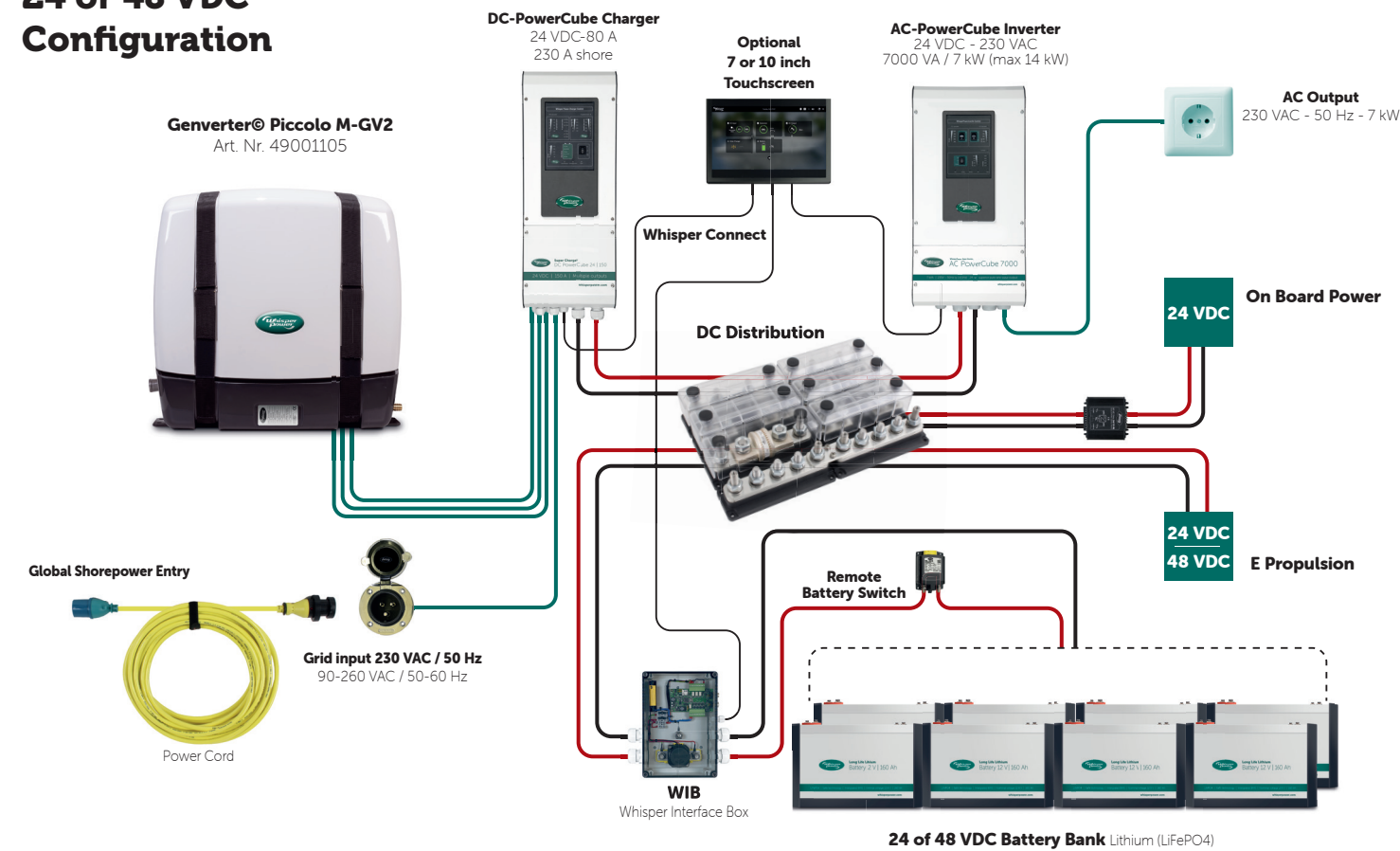
230 VAC / 50 Hz (120 VAC/60 Hz) Configuration



230 VAC / 50 Hz (AC Concept)

We offer Genverter AC versions, providing 230 VAC / 50 Hz (or 120 VAC 60 Hz) through the PMG inverter module. 'Raw' energy, which has been generated by the Permanent Magnet alternator, is stabilized to pure sine wave voltage via this cabinet. The PMG is connected to the Genverter® by a three wire cable. See drawing at previous, showing the standard supply and the basic options. By installing a WhisperPower Centre inverter/charger, the Genverter's AC output power can be temporarily increased (by 2-3.5 kW). The PMG output is coupled to the WPC input which feeds the power from the Genverter® to the consumer devices. Whenever the Genverter® experiences too much load, the WPC provides additional power by using the battery. With restricted/limited use, the Genverter® automatically switches off if set to automatic mode.

24 or 48 VDC Configuration



24 VDC or 48 VDC (DC Concept)

Another way to compose a system is to take the battery as the main power source together with a DC to AC inverter and let the genverter be the 2nd source of power. In this case, the genverter should operate as a battery charger to re-fill the batteries when needed.

Main components of this system:

- DC PowerCube battery charger / shore power support system. Available for 24 and 48 VDC
- AC Powercube as the robust inverter, in fact acting as the "generator", available in 4, 7 and 14 kVA powering
- Battery storage, preferably lithium
- TOUCH system monitor

This is our "low emission Hybrid power system":

- A perfect system for on board AC and DC appliances
- A perfect back-up for electrical propulsion systems

Essential Installation Parts



Touch panel (5 inch)

Ideal remote panel, clear visibility of all functions, includes running hours counter. Compatible with Garmin, Raymarine and Simrad



Hoses and clamps

supplied in kit form



Syphon breaker kit

Waterlock/silencer

Water return protection.



Water inlet kit, fuel filter kit



Lubrication oil

Genverter® Piccolo Power Generation

Adjustable Speed Marine Diesel Generators 5 | 6 | 8 | 10 | 12 | 15 | 18



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Genverter® Piccolo

Silent, Compact, Light-weight and Extremely Powerful

We apply advanced technology as used in e-mobility and renewable energy markets, resulting in the highest efficiency, lowest exhaust emissions and superior electrical output quality in terms of voltage, frequency and peak power behaviour. Our Adjustable Variable Speed Technology allows to vary operating speed of the engine to match the connected electrical load, so no energy is wasted.

Perfect power for your airconditioning (and more)

All Genverter Piccolo models are supplied with an external inverter "box", so no electronic devices are mounted close to the engine. Our PMG inverter should be mounted in a dry and cool area. Independent of the rotating speed of the Permanent Magnet based alternator, the genverter's PMG delivers the correct power quality for comfort equipment, such as washing machines, air-conditioning, electrical cooking devices and various other AC powered equipment. Sensitive appliances work perfect and are not harmed by a poor power supply.

The perfect fit

- Extremely compact and light weight
- Virtually vibration free
- Indirect water cooling (sea or fresh), stow away principle
- Lowest noise level (from 50 dBA)
- Pure sine wave output 230 VAC, 50 Hz (or 120 VAC 60 Hz)
- Eight models 5, 6, 8, 10, 12, 15 and 18 kVA
- All necessary first class installation parts available
- Easy to install – all engine connections pre-fabricated.



Functional PMG start/stop panel with LED indicators delivered as standard with piccolo 4/5.



5 or 7 inch Touch panel, optional. Art. Nr. 40280105



Brand connections:



Photo: Courtesy of Contest Yachts

"Air conditioning and electric cooking are the biggest consumers of electrical power on board of our yachts. On all of our models up to 67 feet, we install WhisperPower generators. We advise our clients to activate these when using the electric cooking device or when the boat is at anchor and the air conditioning is engaged. We choose the Piccolo 15 and Piccolo 12 and Piccolo 8 as the utmost silent auxiliary power solution. They are silent, compact and generate a huge peak power to start-up the A/C".

Robert Vijselaar, Senior Technical Design
Engineer of Contest Yachts, The Netherlands



Piccolo 5 - 230 VAC - 50 Hz	Piccolo 6 - 230 VAC - 50 Hz	Piccolo 8 - 230 VAC / 50 Hz	Piccolo 10 - 230 VAC / 50 Hz	Piccolo 12 - 230 VAC / 50 Hz	Piccolo 15 - 230 VAC / 50 Hz	Piccolo 18 - 230 VAC / 50 Hz
49003005 - Adjustable	49004005	49005005	49009005	49006005	49007005	49008005
49003006 - Ungrounded	49004006 - Ungrounded	49005006 - Ungrounded	49009006 - Ungrounded	49006006 - Ungrounded	49007006 - Ungrounded	49008006 - Ungrounded
49013005 - Variable speed	Also available for parallel use 2x 6 kVA	Also available for parallel use 2x 8 kVA	Also available for parallel use 2x 10 kVA	Also available for parallel use 2x 12 kVA	Also available for parallel use 2x 15 kVA	Also available for parallel use 2x 18 kVA
49013006 - Variable speed / Ungrounded						

MAIN SPECIFICATIONS		Piccolo 5 - 230 VAC - 50 Hz		Piccolo 6 - 230 VAC - 50 Hz		Piccolo 8 - 230 VAC / 50 Hz		Piccolo 10 - 230 VAC / 50 Hz		Piccolo 12 - 230 VAC / 50 Hz		Piccolo 15 - 230 VAC / 50 Hz		Piccolo 18 - 230 VAC / 50 Hz	
Intermittent Power kW at 25°C (77°F)	3.5 kW	6 kW	6.4 kW	8.5 kW	9.6 kW	12 kW	15 kW								
Continuous Power kVA at 25°C (77°F)	4.4 kVA	6 kVA	8 kVA	10 kVA	10 kVA	15 kVA	18 kVA								
Noise level	54 dB(A) at 7 m, 65 dB(A) at 1 m	51 dB(A) at 7 m, 65 dB(A) at 1 m	51 dB(A) at 7 m, 60 dB(A) at 1 m	51 dB(A) at 7 m, 60 dB(A) at 1 m	51 dB(A) at 7 m, 60 dB(A) at 1 m	58 dB(A) at 7 m, 74 dB(A) at 1 m	57 dB(A) at 7 m, 73 dB(A) at 1 m								
Rpm range	2400 - 3600 rpm, adjustable	2500 - 2800 rpm, adjustable	2500 - 2800 rpm, adjustable	2500 - 2800 rpm, adjustable	2800 - 3300 rpm, adjustable	2000 - 2600 rpm, adjustable	2000 - 2600 rpm, adjustable								
Alternator technology	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet								
Generator cooling	Air cooled	Air cooled	Indirect liquid cooling	Indirect liquid cooling	Indirect liquid cooling	Indirect liquid cooling	Indirect liquid cooling								
Generator control	PMG	PMG	DDC	DDC	DDC	DDC	DDC								
Control Panel	PMG + PMG Remote	PMG + PMG Remote	DDC Local + DDC Remote	DDC Local + DDC Remote	DDC Local + DDC Remote	DDC Local + DDC Remote	DDC Local + DDC Remote								
Inverter Module	WP-PMG frame 1 Plus	WP-PMG frame 1 Plus	WP-PMG frame 1 Plus	WP-PMG frame 2	WP-PMG frame 2	WP-PMG frame 3	WP-PMG frame 3								
Nominal voltage / frequency	230 VAC, 50 / 60 Hz	230 VAC, 50 / 60 Hz	230 VAC, 50 / 60 Hz	230 VAC, 50 / 60Hz	230 VAC, 50 / 60 Hz	230 VAC, 50 / 60 Hz	230 VAC, 50 / 60 Hz								
Phase/wire	1 phase, 3 wires	1 phase, 3 wires	1 phase, 3 wires	1 phase, 3 wires	1 phase, 3 wires	3 phase, 3 wires	3 phase, 3 wires								
Peak power 2 s	200%	200%	200%	200%	200%	200%	200%								
Harmonic distortion	< 5%	< 5%	< 3%	< 3%	< 3%	< 3%	< 3%								
Frequency tolerance	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%								
DIESEL ENGINE SPECIFICATIONS		WhisperPower WP1		WhisperPower Kubota Z482-E4B		WhisperPower Kubota Z482		WhisperPower Kubota D722		WhisperPower Kubota D722		WhisperPower Kubota D1105		WhisperPower Kubota V1505	
Engine	WhisperPower WP1	WhisperPower Kubota Z482-E4B	WhisperPower Kubota Z482	WhisperPower Kubota D722	WhisperPower Kubota D722	WhisperPower Kubota D1105	WhisperPower Kubota V1505								
Displacement	309 cc (1 cylinder)	479 cc (2 cylinders)	479 cc (2 cylinders)	719 cc (3 cylinders)	719 cc (3 cylinders)	1123 cc (3 cylinders)	1489 cc (4 cylinders)								
Bore & stroke	78 x 67 mm	67 x 68 mm	67 x 68 mm	78 x 68 mm	78 x 68 mm	78 x 78.4 mm	78 x 78.4 mm								
Cooling system	Heat exchanger	Indirect water cooled	Indirect water cooled	Indirect water cooled	Indirect water cooled	Indirect water cooled	Indirect water cooled								
Fuel consumption (no load - full load)	0.8-1.2 l/hr	1.7-2.5 l/hr	2.6-3.8 l/hr	2.6-4.75 l/hr	2.6-4.75 l/hr	4.2-5.6 l/hr	4.2-5.6 l/hr								
Starter battery charge method/ current	Handy charger 12 VDC 7A	Alternator 12 VDC 12.5 A	Alternator 12 VDC 12.5 A	Alternator 12 VDC 40 A	Alternator 12 VDC 40 A	Alternator 12 VDC 40 A	Alternator 12 VDC 40 A								
DIMENSIONS & WEIGHT		Piccolo 5		Piccolo 6		Piccolo 8		Piccolo 10/12		Piccolo 15		Piccolo 18			
Length x width x height (cabinet)	450 x 470 x 520 mm	520 x 470 x 541 mm	660 x 550 x 622 mm	740 x 550 x 622 mm	740 x 550 x 622 mm	882 x 570 x 690 mm	990 x 560 x 705 mm								
Length x width x depth (PMG)	420 x 196 x 148 mm	420 x 196 x 148 mm	420 x 196 x 148 mm	490 x 198 x 188 mm	490 x 198 x 188 mm	542 x 384 x 257 mm	568 x 347 x 198 mm								
Dry weight (cabinet + PMG)	68 kg + (7.6 kg)	145 kg + (7.6 kg)	155 kg + (7.6 kg)	175 kg + (9.9 kg)	187 kg + (9.9 kg)	187 kg + (20 kg)	230 kg + (20 kg)								
Exhaust type	Ø 40 mm, wet	Ø 40 mm, wet	Ø 40 mm, wet	Ø 40 mm, wet	Ø 40 mm, wet	Ø 40 mm, wet	Ø 40 mm, wet								
Max. operating angle	25° in all directions	25° in all directions	25° in all directions	25° in all directions	25° in all directions	25° in all directions	25° in all directions								
OPTIONAL		Piccolo 5		Piccolo 6		Piccolo 8		Piccolo 10/12		Piccolo 15		Piccolo 18			
	Touch panel 5"	Touch panel 5"	2nd start/stop panel, Touch panel 7"	2nd start/stop panel, Touch panel 7"	2nd start/stop panel, Touch panel 7"	2nd start/stop panel, Touch panel 7"	2nd start/stop panel, Touch panel 7"								
	Ungrounded	Ungrounded	Ungrounded	Ungrounded/ ignition protection	Ungrounded/ ignition protection	Ungrounded/ ignition protection	Ungrounded/ ignition protection								
			Keel Cooling	Keel Cooling	Keel Cooling	Keel Cooling	Keel Cooling								

*) Preliminary specifications

Perfect power

Devices such as air conditioning units and electric motors are often controlled by electronics to improve the efficiency and performance. Traditional generators may fail to operate these appliances. All Piccolo models are equipped with a PMG module (Power Module Genverter®) to ensure that the voltage and frequency within the rotating speed range remain perfect so that all the equipment continues to run without interruption. Surge power is generated by the PMG to start up inductive loads.



Any space will do

All our Piccolo models are extremely compact and can be installed in the smallest location. Only minor air ventilation is needed. At picture an installation of a Piccolo 5 in a day cruiser.



WhisperPower's main manufacturing facility is located in Drachten (Friesland), the Netherlands. Our entire operation and processes conform to ISO 9001-2008 standards. A significant number of our WhisperPower diesel generators are also certified to various national standards, for example Chinese and Russian Maritime Type Approvals due to the strict investigative procedures and regulations for compliance such as audits that can be carried out by third party officials.

