Genverter® Piccolo Povver Generation

Adjustable Speed Marine Diesel Generators 4 | 6 | 8 | 10 | 12 | 15 | 18



Enjoy Green Energy

whisperpower.com

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 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 120 V 60 Hz (or 230 VAC, 50 Hz)
- Eight models 4, 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 or 7 inch Touch panel, optional Art. Nr. 40280105



Up to date technology

or 230 V 50/60 Hz devices

WhisperPower DC PowerCube.

alternator technology

• Highly efficient thanks to use of permanent magnet

• Optimal sound reduction by polyester sound shield

Choose from AC or DC variations

• Manual speed settings for optimal rpm level (all models)

• Standard versions for 120 V - 240 VAC, 60 Hz split phase

• Version for charging the 24/48 VDC batteries by connecting to

• PMG inverter fitted with high current IGBT's for high surge

• Tier 4/ EPA emission level (2/3 Cylinder models) as standard

• Automatic speed settings on load sense (for 1 cylinder models)



Allures 39.9 Copyright: Nils Schürg



"With its excellent advice, fast delivery and easy installation, WhisperPower convinced us to buy the Piccolo. This small, quiet Genverter is an excellent fit for our customers' needs.'

Uli & Nils Schürg, Blue Yachting



Unique engine

The small Piccolo 4/5 models are fitted with modern diesel engines, entirely for the purpose of generating power the smooth way. The oil is cooled by a heat exchanger designed for indirect watercooling, the circulation water pump is driven by a PTO (no belt). Our Piccolo 6, 8, 10, 12, 15 and 18 kVA models are all-water cooled, back-end and diesel, in one circuit.





Perfect power

WhisperPower's PMG inverter incorporates two main functions: this robust, electronic device converts the generated power (input) into a pure sine wave with fixed Hz (output). The rotating speed is programmable from 2000 to 2800 rpm, select the rotating speed for the needed power. The PMG power inverter is also the power management device, offering full read-out via WhisperConnect to the Touch panel. Voltage and frequencies can be selected



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 4 in a day cruiser.

MAIN SPECIFICATIONS

Intermittent Power kW at 25 Continuous Power kVA at 25

Noise level

Rpm range

Alternator technology Generator cooling

Generator control

Control Panel

Inverter Module

Phase/wire

Peak power 2 s

Harmonic distortion

Frequency tolerance

DIESEL ENGINE SPECIFICA

Nominal voltage / frequency

Displacement

Bore & stroke

Cooling system

Fuel consumption (no load

Starter battery charge method

Length x width x height (cal Length x width x depth (PM Dry weight (cabinet + PMG) Exhaust type mm (in.)

Max. operating angle

OPTIONAL

*) Preliminary specifications



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	Piccolo 4 120 VAC 60 Hz	Piccolo 6 120 VAC 60 Hz *)	Piccolo 8 120 VAC 60 Hz	Piccolo 10 120/240 VAC 60 Hz	Piccolo 12 120/240 VAC 60 Hz	Piccolo 15 120/240 VAC 60 H	z Piccolo 18 120/240 VAC 60 Hz
	49002055 - Adjustable rpm	49004055 - Adjustable rpm	49005055 - Adjustable rpm	49009055 - Adjustable rpm	49006155 - Adjustable rpm	49007055 - Adjustable rpm	49008055 - Adjustable rpm
	49002056 - Ungrounded	49004056 - Ungrounded	49005056 - Ungrounded	49009056 - Ungrounded	49006156 - Ungrounded	49007056 - Ungrounded	49008056 - Ungrounded
	49012055 - Variable speed			-	-	_	_
	49012056 - Variable speed / Ungrounde	ed					
C (77°F)	3.5 kW	6 kW	6 kW	8.5 kW	9.6 kW	12.5 kW	15 kW
(77°F)	3.5 kVA	6 kVA	6 kVA	10 kVA	10 kVA	15 kVA	18 kVA
	54 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	54 dB(A) at 7 m, 65 dB(A) at 1 m	54 dB(A) at 7 m, 65 dB(A) at 1 m	54 dB(A) at 7 m, 65 dB(A) at 1 m
	2800 - 3600 rpm, adjustable	2400 3000 rpm, adjustable	2400 2800 rpm, adjustable	2400 2800 rpm, adjustable	2400 3600 rpm, adjustable	2200 3200 rpm, adjustable	2000 2600 rpm, adjustable
	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet
	Air cooled	Indirect liquid cooling	Indirect liquid cooling	Indirect liquid cooling	Indirect liquid cooling	Indirect liquid cooling	Indirect liquid cooling
	PMG	PMG	DDC	DDC	DDC	DDC	DDC
	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
	PMG frame 1	PMG frame 2	PMG frame 2	PMG frame 3 split phase	PMG frame 3 split phase	PMG frame 3 split phase	PMG frame 3 split phase
	120 VAC, 50/60 Hz	120 VAC, 50/60 Hz	120 VAC, 50/60 Hz	120 VAC, 50/60 Hz	120 VAC, 50/60 Hz	120 VAC, 50/60 Hz	120 VAC, 50/60 Hz
	1 phase, 3 wires	1 phase, 3 wires	1 phase, 3 wires	split phase, 4 wires	split phase, 4 wires	split phase, 4 wires	3 wires or split phase, 4 wires
	200%	200%	200%	200%	200%	200%	200%
	< 5%	< 5%	< 3%	< 3%	< 3%	< 3%	< 3%
	± 0,1%	± 0,1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%	± 0.1%
ONS							
	WhisperPower WP1	WhisperPower Kubota Z482-E4B	WhisperPower Kubota Z482	WhisperPower Kubota D722	WhisperPower Kubota D722	WhisperPower Kubota D1105	WhisperPower Kubota V1505
	309 cc (1 cylinder)	479 cc (2 cylinders)	479 cc (2 cylinders)	719 cc (3 cylinders)	719 cc (3 cylinders)	1.123 cc (3 cylinders)	1.489 cc (4 cylinders)
	78 x 67 mm	67 x 68 mm	67 x 68 mm	67 x 68 mm	67 x 68 mm	78 × 78.4 mm	78 x 78.4 mm
	Heat exchanger	Heat exchanger	Heat exchanger	Heat exchanger	Heat exchanger	Heat exchanger	Heat exchanger
full load)	0.8-1.2 l/hr	0.8-1.2 l/hr	1.7-2.5 l/hr	2.6-3.8 l/hr	2.6-4.75 l/hr	4.2-5.6 l/hr	4.2-5.6 l/hr
d/ current	Handy charger 12 V/7A	Handy charger 12 V/7A	Alternator 12 V/12.5 A	Alternator 12 V/12.5 A	Alternator 12 V/12.5 A	Alternator 12 V/90 A	Alternator 12 V/90 A
net) (in.)	17.7 x 18.5 x 20.5	20.5 x 18.5 x 21.2	26 x 21.7 x 24.5	29.1 x 21.7 x 24.4	29.1 x 21.7 x 24.4	34.6 x 22.4 x 27.2	39 x 22 x 27.8
(in.)	17.2 x 8.1 x 5.9	19.3 x 7.8 x 7.5	19.3 x 7.8 x 7.5	22.3 x 13.7 x 8.3	22.3 x 13.7 x 8.3	22.3 x 13.7 x 8.3	22.3 x 13.7 x 8.3
	149lb + 16lb	319lb + 21lb	341lb + 21lb	385lb + 66lb	385lb + 66lb	463lb + 66lb	507lb + 66lb
	Ø 40 mm, wet (1.6)	Ø 40 mm, wet (1.6)	Ø 40 mm, wet (1.6)	Ø 40 mm, wet (1.6)	Ø 40 mm, wet (1.6)	Ø 40 mm, wet (1.6)	Ø 40 mm, wet (1.6)
	25º in all directions	25º in all directions	25º in all directions	25º in all directions	25º in all directions	25º in all directions	25º in all directions
	Touch panel, PEK (Picollo extension ki	t) Touch panel, PEK	2 nd start/stop panel, Touch panel	7" 2 nd start/stop panel, Touch panel 7	" 2 nd start/stop panel, Touch panel 7 ⁿ	["] 2 nd start/stop panel, Touch panel	7" 2 nd start/stop panel, Touch panel 7"

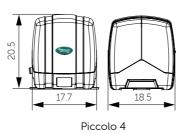
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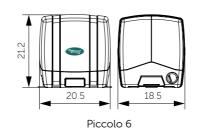
Keel Cooling



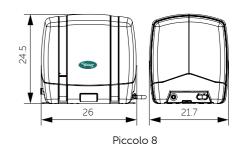


wer's main manufacturing ated in Drachten (Friesland), ands. Our entire operation rocesses conform to 2001-2008 standards. ficant number of our er diesel generators are also rious national standards, for nese and Russian Maritime provals due to the strict procedures and regulations see such as audits that can be at by third party officials.





Keel Cooling



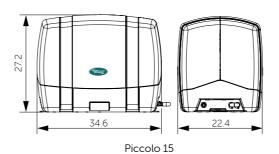
Keel Cooling

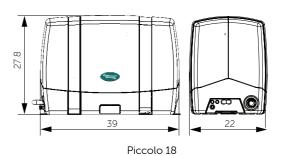
Keel Cooling

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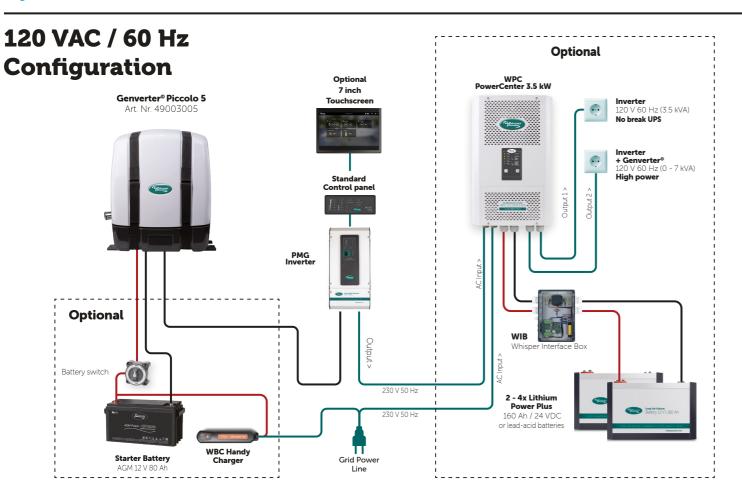
Piccolo 10/12

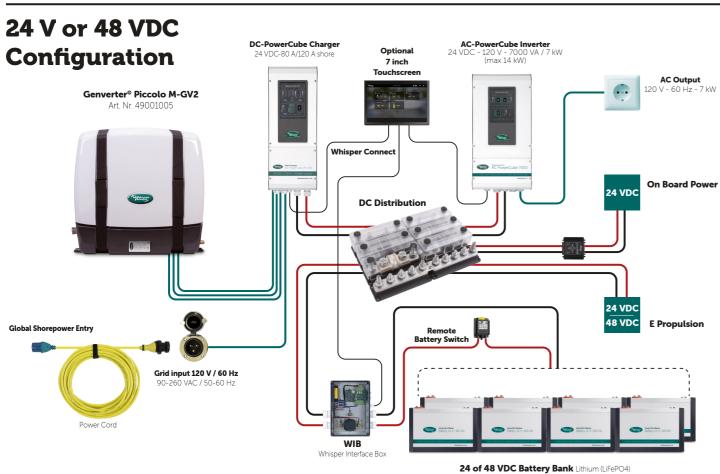
Keel Cooling





System variations





120 VAC / 60 Hz (AC Concept)

We offer Genverter AC versions, providing 120 V 60 Hz (or 230 V / 50 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 V 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 2e 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

- 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



▲ Hoses and clamps

supplied in kit form



▲ Water inlet kit, fuel filter kit



▲ Syphon breaker kit



Sales outlets in more than 50 countries

whisperpower.com

