**Inverter for GV 12 & 15**

- Excellent choice to replace traditional generator sets
- 12 kW continuous 230 V power from adjustable speed generator system
- High efficiency and strong peak power
- Outstanding voltage and frequency stability
- Saving fuel and ensuring smooth running of your generator
- Generator Power, the best choice for your energy supply

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**1. INTRODUCTION**

Thanks for choosing our product, The Power Module for Genverter (WP-PMG) is an essential link between your WhisperPower genverter and your AC electrical system. WhisperPower genverters are state-of-the-art systems using very compact and highly efficient Permanent Magnet Alternators to produce electric power from a traditional fixed speed generator sets, however, genverters may produce output voltages up to 350 VAC with frequencies as high as 400 Hz. This is where the WP-PMG comes into play, using advanced power electronics to produce a stable sinusoidal AC voltage at 50 Hz as required by regular 230 V appliances. Safety is enhanced by the low output impedance of the WP-PMG allowing proper circuit protection.

**Applicability of this manual**

This manual contains important instructions for safe and effective installation, operation, maintenance and, if necessary, troubleshooting of the WP-PMG. It is therefore mandatory that every person who works on or with the WP-PMG is completely familiar with the contents of this manual, and that he/she carefully follows the instructions and important safety instructions contained herein.

**Use of pictograms**

Throughout this manual, safety instructions and warnings are marked by pictograms.

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CAUTION!

A CAUTION refers to possible injury to the user or significant material damage to the WP-PMG if the user does not (carefully) follow the procedures.

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WARNING!

A WARNING is to possible injury to the user or significant material damage to the WP-PMG if the user does not (carefully) follow the procedures.

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**Identification label**

The identification label is located on the right-hand side of the WP-PMG (see figure 1). Important technical information regarding for service, maintenance & secondary delivery of parts can be derived from the identification label.

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**Liability**

WhisperPower BV cannot accept liability for consequential damage due to incorrect handling of the WP-PMG, possible errors in the manual, and their results. Copyright © 2015 WhisperPower BV. All rights reserved. Reproduction, transfer, distribution or storage of part or all of the contents in this document in any form without the written permission of WhisperPower BV is prohibited.

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**GUARANTEE**

WhisperPower guarantees that the equipment has been built according to the legally applicable standards and specifications. Should work be taken place, which is not in accordance with the guidelines, instructions and specifications contained in this user’s manual, then damage may occur and/or fire may not fulfill its specifications. All of these matters may mean that this guarantee becomes invalid. The guarantee is limited to the costs of repair and/or replacement of the product. Costs for installation labour or shipping of the defective parts are not covered by this warranty.

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**2. IMPORTANT SAFETY INSTRUCTIONS**

**RISK AND SAVE THESE INSTRUCTIONS**

- To ensure safe and sustainable operation of the WP-PMG, the handling and safety instructions detailed in this manual shall be followed at all times.
- To reduce the risk of electric shock – Do not expose WP-PMG in rain, snow, spray, mist, excessive pollution and confining circumstances. To reduce risk of fire hazards, do not cover or obstruct the ventilation openings.
- Do not install the WP-PMG in a non-ventilated room, overheat may result.
- The WP-PMG was designed for indoor and clean environments.
- Do not install the WP-PMG in a non-ventilated room, overheating may result. The WP-PMG was designed for indoor and clean environments.
- The WP-PMG has been designed and tested in accordance with international standards. Only use the equipment for the intended purpose of application. Use of any attachment or spare part not recommended or sold by WhisperPower may result in a risk of fire, electric shock, or injury to persons.
- When in contact with electrical equipment, local and/or national regulations shall be followed at all times.
- There are no serviceable parts inside the equipment, incorrect manufacturing may result in a risk of electric shock or fire. Only qualified and authorised person are permitted to perform installation or maintenance, a definite danger result opening the system.
- The WP-PMG must be provided with an equipment grounding conductor to the AC input ground terminal. Grounding of the Neutral conductor and connection of all other wiring must comply with the National and local codes and regulations.

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**Power On/Off**

The Power switch on the control panel implements main control of the WP-PMG input power. Note that it does not control the generator. When switched to “on” or “remote”, the WP-PMG Section is switched on, providing controlled input power to connected loads, while displaying associated operating information. Under normal conditions, the user is best advised to switch the “on” or “remote” position, and to perform the tasks described in the “Remote” section.

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**Figure 1: Identification label**

CAUTION!

- Never remove the identification label

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**3. TROUBLESHOOTING**

The table below lists possible failure conditions. If the faults are not cleared, the WP-PMG will shut down automatically.

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**CENTRAL PANEL INFORMATION**

**CAUTION!**

- Be sure to store the WP-PMG in a clean environment, free from dust.

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**4. INSTALLATION**

General Remarks

Local and/or special regulations may apply depending on the type of installation involved. It is essential that each and every circuit in the electrical system is properly labeled by a qualified electrician using all applicable standards.

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**5. SPECIFICATIONS**

A WARNING refers to possible injury to the user or significant material damage to the WP-PMG if the user does not (carefully) follow the procedures.

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**6. SERVICE, MAINTENANCE & SECONDARY DELIVERY**

- CAUTION!

  - The WP-PMG must be provided with an equipment-grounding conductor to the AC input ground terminal. Grounding of the Neutral conductor and connection of all other wiring must comply with the National and local codes and regulations.

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**7. TECHNICAL DATA**

A WARNING refers to possible injury to the user or significant material damage to the WP-PMG if the user does not (carefully) follow the procedures.

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**Guarantee specifications**

WhisperPower guarantees that the equipment has been built according to the legally applicable standards and specifications. Should work be taken place, which is not in accordance with the guidelines, instructions and specifications contained in this user’s manual, then damage may occur and/or fire may not fulfill its specifications. All of these matters may mean that this guarantee becomes invalid. The guarantee is limited to the costs of repair and/or replacement of the product. Costs for installation labour or shipping of the defective parts are not covered by this warranty.

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**Wiring**

- The WP-PMG is completely familiar with the contents of this manual, installation, operation, maintenance and, if necessary, troubleshooting WP-PMG (see figure 1). Important technical information required for the service, maintenance & secondary delivery of parts can be derived from the identification label.

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**Operation**

A WARNING refers to possible injury to the user or significant material damage to the WP-PMG if the user does not (carefully) follow the procedures.

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**Customer support**

- WhisperPower BV

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**WhisperPower BV**

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info@whisperpower.com, www.whisperpower.com
**5. SPECIFICATIONS**

**Areas:**
- General specification

**GENERAL SPECIFICATIONS**
- Generator model: 55 kW, 50 Hz
- Nominal power: 55 kW
- Nominal apparent power: 115 kVA
- Input voltage 3-phase: 240 V, 400 V, 50 Hz, 60 Hz, 3-phase
- Input frequency: 230 V, 400 V
- Maximum input current: 32 A
- Input voltage: 220 V, 230 V, (400 V), 50 Hz, 60 Hz
- Frequency: 50/60 Hz
- Output current: 64 A
- Wire system: 1, 3, 5, 7, 12, 16 PE

**WEIGHT AND DIMENSIONS**
- Weight
  - 23.7 kg
  - Dimensions: 304 x 260 x 248 mm
  - Weight incl. PE: 248 kg

**ENCLOSED ENCLOSURES**
- Output voltage (AC)
  - 200–240 V (nominal 230 V)
- Output voltage stability
  - ±5% (total load step 0–100%)
- Voltage PFC (the harmonic distortion): <7%
- Output frequency
  - 50 Hz, 60 Hz
- Frequency variations: <1%
- Continuous power
  - 12 kW
- Peak power
  - 24 kW, for 5 s
- Short circuit protection
  - yes
- Peak efficiency
  - 97%
- Nominal efficiency
  - 95% at all load

**CONDITIONS**
- Operating temperature
  - -20°C to 70°C
- Humidity
  - 0–100% relative humidity, non-condensing
- Storage temperature
  - -40°C to 65°C
- Installation
  - Indoor or outdoor, sheltered, in free standing position
- Lifespan
  - 15 years or 15,000 hours, whichever comes first

**APPLICABLE STANDARDS AND CERTIFICATIONS**
- Emissions
  - EN 50270 (Class A1, modified version)
- Dimensions:
  - EN 60945:2002 (Maritime navigation and radiocommunication equipment and systems)
- Certification: EU/2014/38 (Maritime equipment and systems)

**WHISPERSOURCE®**

WhisperPower recognizes that the equipment has been built according to the applicable legal standards and specifications. WhisperPower assumes no liability for the product warranty of the Power Module for Generators during the specified warranty period. All warranties and conditions are therefore subject to the applicable product specifications.