



# Solutions for the rental business

## Stage V mobile generators





## We look to the future as a leader of the energy generation

We lead the evolution to more **resilient, efficient** and **sustainable** energy **solutions**, having a broad suite of products that support the path towards the **global energy transition**. Our wide range of products helps operators to reduce fuel consumption and CO2 emissions.

We are committed to deliver **clean** and **efficient solutions** across a wide range of commercial and domestic applications.

Pramac provides **the widest range of hybrid and environmentally friendly power products**, including: generators, tower lights and battery energy storage solutions.

# The widest choice of **hybrid** and **environmentally friendly** power and lighting solutions

Our professional and innovative approach, guarantees products of unquestioned reliability and with high technical performances.

## POWER GENERATORS

- Rental solutions
- Stage V compliant
- Hybrid versions

## BATTERY ENERGY STORAGE SYSTEMS

- OPzV-S and lithium batteries
- Remote Connectivity
- 0 noise & emission

## MOBILE LIGHT TOWERS

- Diesel, Electric, Hybrid & Solar models
- Stage V compliant
- G4 & Hyper LEDs



# Stage V Compliant

The Stage V is a “green” initiative, aiming to reduce the pollutants emitted by the engine.

The European Union imposes, for the mobile market of the generating sets, the introduction of highly technological engines, capable to reduce the particulate matter produced by the machines. This means reduction of the global atmospheric pollution, as an important commitment for the environment and health of our planet.

Pramac Stage V generator sets are equipped with **advanced engine technologies** to meet the latest European emission regulations (EU Regulation 2016/1628), offering a **robust** and **easy maintenance design** which places the products as a top of the range in the rental business.

## Solutions by product series

|                   |            |
|-------------------|------------|
| <b>GPW</b> Series | 9-60 kVA   |
| <b>GRW</b> Series | 80-550 kVA |
| <b>GQW</b> Series | 1,4 MVA    |



# Properties advantages

The Stage V Pramac generators are specifically designed for the rental business. They feature FPT, Volvo and Scania engines, which includes the **After-Treatment System (ATS)**, to guarantee the **emissions reduction**, in compliance with EU Regulation 2016/1628 for all mobile application.



## EXHAUST GAS

Exhaust gas comes out of the engine as yet untreated but already with reduced emission levels thanks to an efficient electronically controlled engine and a common rail injection system.



## DOC | DIESEL OXIDATION CATALYTIC

The DOC reduces the amount of CO and increases the percentage of NO<sub>2</sub>.



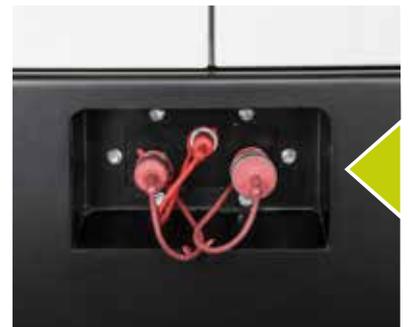
## DEF TANK

The approximate consumption of DEF tank is about 10% of the diesel oil consumption. The DEF tank is heated to prevent the urea from freezing.



## DPF | DIESEL PARTICULATE FILTER

Exhaust gas passes through the walls of ceramic lattice, trapping soot particles (PM). These are then burned off through a process of regeneration.



## QUICK FUEL AND DEF CONNECTORS

The Quick Fuel and DEF tank connectors allow the rapid increase of the autonomy of the generator through an external tank. Available as supplement.

# GPW Series

The GPW philosophy offers a high degree of versatility and allows for the most suitable configuration to be achieved according to real operational needs: local regulations, site specs, application and usage.

The core design and the wide list of modules make the generator adaptable to several specific needs:

- Multiple solutions for power output/distribution > bus bar, sockets, power lock
- Canopy and base frame features guarantee easy handling
- General arrangement and large service access make for simple and efficient maintenance tasks
- Extended options list to enhance the genset safety, security and protection levels according to ambient/site conditions and specific regulations

## Environmentally Friendly



LARGE USE OF  
RECYCLABLE  
MATERIALS



LONG-LASTING  
MATERIAL FOR  
LOW PRODUCT  
DETERIORATION



## Glocal Philosophy

A modular design offers maximum configurability to adapt the generator to a large variety of requirements based on specific customer needs, final purpose and local regulations.



## Several configurations, responding to tomorrow's operational challenges:

- High quality standards and reliability with a specific design suitable for mobile applications
- A modular design allows high flexibility on scope of supply, with a wide range of mechanical and electrical options



**Reliability**



**Durability**



**Easy handling**



**Fast servicing**



# Properties advantages



## Easy handling and transport

Overall dimensions designed to optimize load space in a container and on a truck. **A single roof lifting point** and additional **four lifting points** located in the baseframe allow the genset to be moved by crane. Bolted feet also allow the genset to be handled by forklift. **Galvanized skid base** with **forklift pockets** available as option.



## Several fuel tank sizes available

**Three fuel tank** options available with different levels of autonomy, in polyethylene and metal: 8h, 12h, 24h.



## Easy service and maintenance

Designed for easy ordinary and extraordinary maintenance. **Three large doors** allow access to all service points. **Detachable battery** access panel for quick starter battery service.



## DSE- Cutting edge control panel

**Complete segregation** between control and power sections, by means of two **separate** metal cabinets. Control and power sections able to house digital/analogue instrumentation and robust busbar. Modular design allows for **high flexibility** of the scope of supply.



## Socket panel

Sockets panel positioned in the frontal side and separated from the control/power cabinets with **high flexibility on sockets combination**. Ideal for easy and **fast** power connection.



## High Protection

Designed to guarantee **high safety standards** for the operator. Weatherproof enclosure with **high protection** against water and dust ingress, thanks to special metal air inlet. **Key lockable** doors avoid unauthorized access.

# Technical data

| Models     | PRP (kVA) | Engine  | Alternator              | Fuel Tank (l)* | Dimensions (LxWxH mm)** | Control unit                              |
|------------|-----------|---------|-------------------------|----------------|-------------------------|---|
| GPW9Y/FS5  | 9         | Yanmar  | variuos                 | poly / metal   | 1800x850x1260           | DSE4520 MKII / DSE7320 MKI                |
| GPW9P/FS5  | 9         | Perkins | variuos                 | poly / metal   | 1800x850x1260           | DSE4520 MKII / DSE7320 MKI                |
| GPW13Y/FS5 | 13        | Yanmar  | Mecc Alte               | poly / metal   | 1800x850x1260           | DSE4520 MKII / DSE7320 MKI                |
| GPW18Y/FS5 | 18        | Yanmar  | Leroy Somer             | poly / metal   | 2200x1000x1310          | DSE4520 MKII / DSE7320 MKI / DSE8620 MKII |
| GPW18Y/FS5 | 18        | Yanmar  | Mecc Alte               | poly / metal   | 1800x850x1260           | DSE4520 MKII / DSE7320 MKI                |
| GPW20P/FS5 | 20        | Perkins | Leroy Somer             | poly / metal   | 2200x1000x1310          | DSE4520 MKII / DSE7320 MKI / DSE8620 MKII |
| GPW20P/FS5 | 20        | Perkins | Mecc Alte               | poly / metal   | 1800x850x1260           | DSE4520 MKII / DSE7320 MKI                |
| GPW35Y/FS5 | 36        | Yanmar  | Leroy Somer / Mecc Alte | poly / metal   | 2200x1000x1423          | DSE7320 MKII / DSE8620 MKII               |
| GPW45Y/FS5 | 44        | Yanmar  | Leroy Somer / Mecc Alte | poly / metal   | 2200x1000x1423          | DSE7320 MKII / DSE8620 MKII               |
| GPW60I/FS5 | 60        | FPT     | Leroy Somer / Mecc Alte | poly / metal   | 2400x1040x1743          | DSE7320 MKII / DSE8620 MKII               |

\* Multiple tanks available in polyethylene and metal.

\*\* Dimensions might change, due to different tanks and supplements.



# GRW Series

**Robust quality engineered for extended life**  
**High performance across strategic services and events**

The GRW series works across a wide variety of applications where temporary power supply is needed. These generators are the ideal solution for rental companies, thanks to their versatility, high efficiency and high structural resistance. They are easy to use and guarantee high degrees of protection, low noise emissions and easy access for maintenance.



## Low Opex

- Base frame equipped with anchor points, forklift pockets, pull bars
- Single lifting point
- Control panel single interface area
- High quality fuel system with 6-way fuel valve



## Durability

- More than 1000h tested salt spray resistant canopy
- Large metal fuel tank (up to 24h autonomy) with internal baffles
- Cutting edge components
- Robust design to withstand the toughest of environments



## Eco friendly

- Compatible engines with Hydrotreated Vegetable Oil (HVO)
- Fully bunded base frame able to retain 110% liquids complete with leak detection sensor
- Heavy-duty diesel engines compliant with Stage V emission level and equipped with electronic governor
- High quality materials with low impact recycling equipment



## High protections

- Fully waterproof air inlet openings
- Synchronous brushless alternator with reinforced insulation
- Tropical cooling system
- Additional fuel filter
- Safety and protection guaranteed battery switch



# Properties advantages



## Long lasting - long running

- Reliable peace of mind performance
- More than 1000h tested salt spray resistant canopy
- Large metal fuel tank (up to 24h autonomy) with internal baffles
- Cutting edge components
- Robust design to withstand the toughest of environments

## High protection

- High quality thermal insulation
- Fully waterproof air inlet openings
- Synchronous brushless alternator with reinforced insulation
- Tropical cooling system
- Additional fuel filter
- Safety and protection guaranteed battery switch



## Easy service

- Wide access doors and double fuel refilling points for easy maintenance
- Base frame equipped with anchor points, forklift pockets, pull bars
- Single lifting point
- Control panel single interface area
- High quality fuel system with 6-way fuel valve

## Low environmental impact

- High density sound proofing for sensitive environments
- Fully bunded base frame able to retain 110% liquids complete with leak detection sensor
- Heavy-duty diesel engines compliant with Stage V emission level and equipped with electronic governor
- High quality materials with low impact recycling equipment

# Control panel

## Automatic and parallel

The control panel is intuitive and user-friendly, features high protection and makes customizations easier. The GRW uses Automatic Control Panel (ACP) and Modular Parallel Panel (MPP).



### **A** CONTROL SECTION With dual-level access to components

- Control unit and all control circuits/switches
- Alternator AVR
- Battery charger
- Adjustable earth fault current protection
- Mechanical hours counter
- Fuel level meter (analogue)

### **B** POWER SECTION High protection with double-door

- Door open switch with circuit breaker tripping
- Last generation bus bar for power cables connection

### **C** SOCKET SECTION Several combinations available

- Sockets panel provides high flexibility on sockets combination. Ideal for easy and fast power connection
- 2-wires start/stop multi pin connector for synchro (parallel panel)
- Multi pin connector for synchro (parallel panel)



## DEEP SEA

User-friendly interface, increasing product's reliability and flexibility

# Technical data

| Models     | PRP (kVA) | Engine | Alternator  | Fuel/DEF Tank (l) | Dimensions (LxWxH mm) | Control unit                           |
|------------|-----------|--------|-------------|-------------------|-----------------------|--|
| GRW80I/S5  | 80        | FPT    | Leroy Somer | 550\43            | 2800x1200x2000        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW100I/S5 | 100       | FPT    | Leroy Somer | 550\43            | 2800x1200x2000        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW150I/S5 | 150       | FPT    | Leroy Somer | 310\43            | 3460x1200x2000        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW200V/S5 | 200       | VOLVO  | Leroy Somer | 650\68            | 4165x1500x2130        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW200I/S5 | 204       | FPT    | Leroy Somer | 310\43            | 3460x1200x2050        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW250V/S5 | 249       | VOLVO  | Leroy Somer | 650\68            | 4165x1500x2130        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW250I/S5 | 250       | FPT    | Leroy Somer | 800\80            | 4165x1500x2130        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW300I/S5 | 307       | FPT    | Leroy Somer | 800\80            | 4165x1500x2130        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW350S/S5 | 353       | SCANIA | Leroy Somer | 1500\164          | 4630x1600x2465        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW400S/S5 | 406       | SCANIA | Leroy Somer | 1500\164          | 4630x1600x2465        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW450S/S5 | 455       | SCANIA | Leroy Somer | 1500\164          | 4630x1600x2465        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW500S/S5 | 500       | SCANIA | Leroy Somer | 1500\150          | 4630x2100x2465        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |
| GRW550S/S5 | 550       | SCANIA | Leroy Somer | 1500\150          | 4630x2100x2465        | DSE7320 MKII / DSE8610 MKII + DSEG8003 |

# Hybrid solutions

Hybrid Power Module (HPM) allows the use of smaller generator that runs for shorter time, lowering service and refuelling needs, in order to give a longer and more efficient life to the machines.

- All-in-one enclosure, compact solution
- Innovative and unique solution for a mobile hybrid generator
- Combination of diesel AC genset with hybrid power module (HPM, batteries and power electronic converter)
- Advanced power electronic DC/AC conversion with Li-ion batteries
- Advanced Stage V engine technology
- Compatible engines with Hydrotreated Vegetable Oil (HVO)



**Low opex**



**Noise elimination**



**Eco friendly**



**Reduced fuel consumption**



**High Efficiency**



**Lower polluting and carbon emissions**



# Properties advantages

## All-in-one: Diesel, Hybrid, Plug in

The GRW Hybrid series is a Hybrid genset in a compact all-in-one package. It is efficient, reliable and reduces significantly the OPEX, with a vast choice of available operating modes that allow the correct selection according to site specificities, such as, events, constructions, working sites or city centers.

The hybrid philosophy of this rental solution has many advantages for the operators, such as:

- Avoid running diesel genset with low loads
- Best efficiency when needed
- Covering power peaks, with batteries
- Reducing fuel consumption and CO2 emissions up to 50% (with typical load profiles for construction sites)
- Lowering noise emissions

## Automatic control panel with control, power and socket section



- **JB:** just battery, silent mode for load below HPM nominal power
- **ECO:** genset is switched on over a programmable power threshold: below this threshold just the HPM supplies the load
- **FULL:** genset always on, the battery stores as much energy as possible, ready to provide power in case of load peaks
- **BATTERY CHARGE MODE:** dedicated plug for battery charging from the grid
- **EPS:** battery always full; genset supplies power to the load and HPM as backup power
- **JE:** just engine mode

# Technical data

|                       |   |                      |
|-----------------------|---|----------------------|
| <b>System Output</b>  | 400VAC Three Phase 50Hz Peak Power: 80kVA |                      |
| <b>Diesel genset</b>  | 61kVA Stand-by Power                      | 60kVA Prime Power    |
| <b>Hybrid package</b> | 30kVA Power Electronics                   | 24kWh Energy Storage |

**1,4 MVA**

# GQW 1405V

Compact and versatile power generation up to 1,4 MVA Prime Power with two generating sets inside a 20-foot HC container. This solution guarantees greater performance, lower fuel consumption and high power density. It offers load profile variations during the gensets' running time, ensuring greatest efficiency and optimum run time.

- Great low-load performances
- High power density
- High performances as load variation response
- Multiple and modular solution for power plants
- Possibility to run generators independently or in parallel
- Dual or secure power solution with compact footprint



**Reduced fuel consumption**



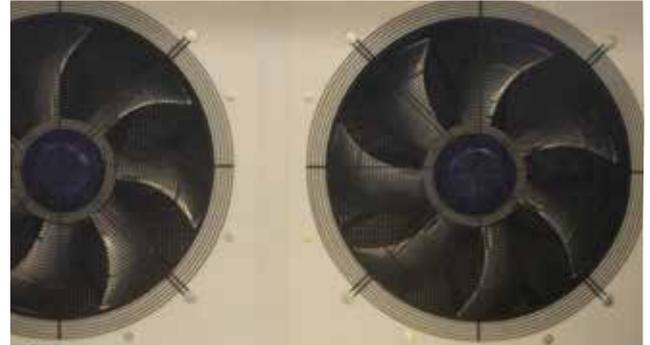
**Parallel configuration**



**Compact footprint**



# Properties advantages



## High return on investment and easy maintenance

- Optimising two engine loads by sharing and synchronising
- Easy access to all components
- Easy access to the High Duty Filter, which simplifies maintenance and replacements
- Minimal maintenance required; advanced, quality maintenance made easy

## Performance Report

- Climate safe: the machines are able to cope in extremely high temperature conditions. An innovative tropicalize design with the possibility to extend this in the future
- Low noise pollution: using 4 variable electro radiators to keep noise pollution at an all-time low
- Top in class: maximum higher power compliance Stage V
- Accessibility: easy access to fuel, DEF and a quick fit for external tanks
- No regeneration: the Stage V GQW does not require the diesel particulate filter or regeneration

# Technical data

|                            |                       |
|----------------------------|-----------------------|
| <b>Model</b>               | GQW 1405V/S5          |
| <b>Prime Power (kVA)</b>   | 1359                  |
| <b>Engine</b>              | Volvo                 |
| <b>Alternator</b>          | Mecc Alte             |
| <b>Fuel Tank (l)</b>       | 1800                  |
| <b>DEF tank (l)</b>        | 2x160                 |
| <b>Dimesion (LxWxH mm)</b> | 6060x2438x3095        |
| <b>Weight (kg)</b>         | 17000                 |
| <b>Control unit</b>        | DSEG8003 + 2x DSE8610 |

# Deep Sea controllers

Pramac features Deep Sea control units across his innovative product lines to increase reliability and flexibility with a user-friendly interface.

Generator set controllers play a key role in management and proper operation of power system:

- Help protecting generator set from possible failure, guaranteeing high reliability and quick power response in all key applications
- Reduce and optimize operation and maintenance costs thanks to complete monitoring of several parameters and scheduling maintenance alarms
- Monitor generator sets anywhere 24/7, protecting genset against theft or movement using GPS

## SYNCHRONISING & LOAD SHARING AUTO START CONTROL MODULES

The DSE controllers represent the latest in complex load sharing & synchronising control technology. Designed to handle the most complex grid type generator applications these modules are packed with multiple features and benefits that are unrivalled across the generator control industry.



## AUTO MAINS (UTILITY) FAILURE CONTROL MODULES

DSE presents a powerful, new generation Auto Mains (Utility) Failure genset control module with a highly sophisticated level of new features and functions, presented in the usual DSE user-friendly format. These controllers are suitable for a wide variety of single, diesel or gas genset applications.





## Pramac is always by your side, with a dedicated after sales support

As a global company, the after sales team is made of people from different part of the world; this diversity and shared knowledge is an added value for the company and the customers as well.

Pramac assists customers providing service division offers, interventions on field, installations, repairing and rewinding support. The highly trained engineers and technicians undergo continuous training and quality programs, ensuring complete accordance with technical, quality, and regulatory standards.

Service and Parts indeed offers trainings and learning tools to help dealers and customers improving their product's technical knowledge and operational skills.

## A global network for a wide offer of parts and after sales support



### Spare parts kit special offer

On-line spare parts order and interactive spare parts catalogues



### Service support

Worldwide approved service network



### Scheduled maintenance kits

Personalised solutions with 24/7 on call service



### Certified operators

Dedicated training programs for users, maintenance and after sales service



### Manuals and guides

A complete set of technical information, offering quick and efficient solutions



### Online assets

A dedicated parts website to reach technical resources, place orders, and check the parts catalogue

[www.pramacparts.com](http://www.pramacparts.com)

Get the information you need, anytime and anywhere

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**WE ARE THE ENERGY GENERATION!**



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