RELIABLE POWER SOLUTIONS

# RGP800


Image for illustration purposes only.

**Output Rating - 50 HZ**

| Voltage, Frequency | Prime | Standby |
|---|---|---|
| 230/400V, 50HZ | 800 KVA<br>640 KW | 880 KVA<br>704 KW |

**Output Rating - 60 HZ**

| Voltage, Frequency | Prime | Standby |
|---|---|---|
| 230/400V, 60HZ | N/A<br>N/A | N/A<br>N/A |

**Output Rating - 60 HZ**

| Voltage, Frequency | Prime | Standby |
|---|---|---|
| 277/480V, 60HZ | N/A<br>N/A | N/A<br>N/A |

Rating at 0.8 power factor

## Features

| | |
|---|---|
| Engine | Perkins , 4006-23TAG3A , Made in UK, in accordance to ISO3046 ,ISO8528,DIN6271 |
| Alternator | Stamford HCI634G , Made in UK,Or Le Roy Somer TAL049C complying to the norms: BS EN60034/ BS 5000/ VDE 0530/ NEMA MG 1-32/ IEC 34/ CSA C22.2-100/AS 1359 |
| Control Panel | MRM 17-1 ,Made in ITALY,or DeepSea Made in UK, complying to the norms: comply to the norms BS EN 61000, BS EN 60950, BS EN 60068 |
| Base Frame | Black steel with Anti-vibration pads, Built in fuel tank |
| Sound Proof Canopy | Modular SPC, Powder Coated, Extremely Durable, Designed to Reduce Sound Level with Maximum Service Accessibility and Minimum Foot Prints |
| Worldwide Support | RG Power Products are distributed through its RG Power International Network |

## Rating Definitions and Conditions

| | |
|---|---|
| Prime Rating | The power available for an unlimited hour usage with an average load factor of 80% of the published prime power over each 24 hours period. A 10 % overload is available for 1Hr every 12 hours. |
| Standby Rating | The power limited to 500 hours annual usage with an average load factor of 80% of the published standby power rating over each 24-hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on standby power. |

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| Engine Perkins, 4006-23TAG3A, 4 Stroke Cycle, Diesel | | | |
|---|---|---|---|
| **Structure** | **Number of Cylinders** | 6 | |
| | **Engine Build** | In Line | |
| | **Bore** | 160 mm | |
| | **Stroke** | 190 mm | |
| | **Displacement** | 22.291 L | |
| | **Compression Ratio** | 13.6 /1 | |
| | **Aspiration** | Turbocharged | |
| | **Cooling** | A /A | |
| **Fuel** | | **1500 rpm** | **1800 rpm** |
| | **Fuel Tank** | N/A | N/A |
| | **Fuel System** | Direct injection | |
| | **Fuel Recommended** | N°2 Diesel | |
| | **Fuel System Make (ECM)** | - | |
| | | **1500 rpm** | **1800 rpm** |
| | **Delivery Flow Rate (lr/hr)** | N/A | N/A |
| | **Fuel Consumption** | | |
| | **100% Load (g/kWh-L/hr)** | 210 (172) | N/A |
| | **75% Load (g/kWh-L/hr)** | 210 (130) | N/A |
| | **50% Load (g/kWh-L/hr)** | 213 (90) | N/A |
| **Cooling system** | **Engine Coolant Capacity** | 105L | |
| | **Air Flow-Radiator** | 22000 L/s | N/A |
| | Radiator with 50 degree ambient | | |
| | Cooling Package & Air Cleaner Kit | | |
| | Thermostatically-controled system | | |
| **Air Inlet** | **Air Intake Engine** (Clean Filter/Dirty) | 1.25 / 3.73 Kpa | |
| **Exhaust System** | **Exhaust Gas Temperature (Prime)** | 430 | N/A |
| | **Exhaust Gas Flow (Prime)** | 3000 l//s | N/A |
| | **Maximum Exhaust System Back Pressure** | 5.98 kPa | N/A |
| | **Muffler** | residential (20→25 dB) | industrial(15→25 dB) |
| | Stainless Steel exhaust flex-fittings | | |
| **DC System-Starting/Charging** | **Cranking Battery Voltage** | 24 V | |
| | **Battery Charging Alternator** | 70 A | |
| | Dc Voltage Monitoring via control | | |
| **Heat Rejection (prime)** | **Radiated Heat to Ambient (Prime)** | 70 kW | N/A |
| | **Heat Rejection to Coolant (Prime)** | 280 kW | N/A |
| | **Heat Rejection to Exhaust (Prime)** | 500 kW | N/A |
| | **Heat Rejection to intercooler** | 194 Kw | N/A |
| **Lube System** | **Lubricating System Oil Capacity** | 113.4 L | |
| **Governor** | Electronic | | |

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| Alternator Stamford , HCI634G/Le Roy Somer TAL049C | | | | |
|---|---|---|---|---|
| **Structure** | **Insulation System** | Class H | | |
| | **Winding Pitch** | 2/3 to minimize harmonics effects | | |
| | **Number of Poles** | 4 | | |
| | **Number of Bearings** | Single bearing | | |
| | **Winding Leads** | 12 | | |
| | **Power Factor** | 0.8 | | |
| | **Over Speed Capability (% of Rated)** | 2250 Rpm (150%) | | |
| | **Wave Form Distortion** | **No load < 1.5% Non-Distorting balanced linear load < 5.0%** | | |
| | **Telephone Interference** | THF < 2% | | |
| | **IP Rating (Protection)** | IP23 | | |
| | **AVR** | Self excited | | |
| | Synchronous, 3 phase, Brushless & Self ventilated | | | |
| | | | **1500 rpm** | **1800 rpm** |
| **Power Switching** | 3-P Circuit Breaker, MCCB | | 1250A | N/A |
| **Temperature** | **Temperature Rise** | | 125/40 °C | |
| **Control & Voltage Regulator** | **Control System (Standard)** | Self excited by PMG | | |
| | **Voltage Regulator (AVR)** | SX460 or AS440 / R220 | | |
| | **% Of Voltage Regulation** | MX321(3 phase sensing) or MX341(1 phase sensing) | | |
| **Motor Starting Capacity@30% Voltage Dip** | if voltage 230/400V | TBA | | |
| | if voltage 277/480V | TBA | | |

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| Standard Controller, 7320 | |
|---|---|
| **Control** | **Fuel tank monitoring**<br>**Emergency Stop Pushbutton/ Alarm Acknowledge**<br>**Engine Cool Down Timer**<br>**Warm-up Timer**<br>**Load Switching Timer**<br>**Engine Cycle Crank** |
| **Indications** | **Operating Hours**<br>**3 Phase Generator Voltage Sensing & Monitoring**<br>**Current Protection & Monitoring**<br>**Power Measurement (kW, kVA, kVAr, kWh, kVAh, kVArh, pf)**<br>**Frequency Monitoring (Hz)**<br>**Oil Pressure/Coolant Temperature/Fuel Level Monitoring**<br>**Battery Voltage Monitoring (DC)**<br>**Alarm Acknowledge** |
| **Warning & Shutdown Alarms** | **Generator Over/Under Voltage & Frequency**<br>**Crank Disconnect (Failure to Start)**<br>**Under/Over Speed**<br>**Over Current**<br>**Low oil pressure**<br>**High Water Temperature**<br>**Low Fuel Level**<br>**Low Water Level** |
| **Features** | **IP 65 (if ordered with gasket)**<br>**Basic Scheduler**<br>**8-35 VDC Supply**<br>**Digital Inputs(4)- Outputs(4 MPU/ 6 CAN)**<br>**Event Log (5 shutdowns)** |

| Optional Accessories | |
|---|---|
| **Alternator** | **AVR (3 phase Sensing)**<br>**Reactive Droop**<br>**Winding Temperature Detectors**<br>**Anti- Condensation Heaters**<br>**Excitation with auxiliary exciter** |
| **Warning & Shutdown Alarms** | **4-P Circuit Breaker**<br>**Special Brands (ABB- MG- Siemens...)**<br>**Motorized Operation**<br>**Shunt Trip**<br>**Under Voltage Trip UVT**<br>**Residual Current Protection**<br>**Ground Fault Protection**<br>**Earthing Kit**<br>**Surge Arrestor** |

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| Optional Accessories (continues) | | |
|---|---|---|
| **Engine** | **Fuel** | Micro-Diesel Filter for Micro-Particles Filtration<br>Automatic Fuel Refilling System<br>Fuel Water Separator **(2000/40)**<br>Mechanical Fuel Level Kit<br>Oversize Fuel Tank Upon Custom Requirements<br>Fuel Tanks-Pipes Heater<br>Optional Built in fuel tank 180 L operation full load (Height will be increased by 100 mm and weight by 20 kg) |
| | **Air Inlet** | Sy-klone Air Cleaner Installed @ Air Intake System |
| | **Exhaust** | Muffler: Critical (25→30 dB) Hospital (35→40 dB)<br>Elbow, Flanges, Expanders & Y Adaptors |
| | **Cooling / Heating** | Radiator with 35 °C or 60 °C Ambient Capability<br>Jacket Water Heater |
| | **Lube** | Manual Sump Drain Pump<br>Semi-Rotator Hand Pump |
| | **DC System - Starting/Changing** | Mains Battery Charger 24 V DC-5A<br>Battery Charger 10A-20A on Request<br>Automatic Battery Charger on Request<br>Battery Disconnector Switch<br>DC/AC Current Monitoring (Ammeter)<br>Oversize Battery |
| **Control Panel** | | 7320/7410/7420-More Inputs & Outputs-Advanced Communications Features;<br>DSE 8610/8710/8810- Load Share Module;<br>Digital & Analogues Inputs Module DSE 2130 (for 7000 Series & Above);<br>Analogue Inputs advanced Module DSE 2131-2133(for 7410 &Above);<br>Digital relay Outputs Module DSE 2157 (for 7000 Series &Above);<br>Analogue Outputs Module DSE 2152 (for 7410 & Above);<br>Local & Remote enunciator Module DSE 2548 (for 7000 Series & Above);<br>Display Modules DSE 2510/2520 (with 7310-7320);<br>Remote Monitoring via: Web Interface (All Series), GSM (for 7000 Series & Above), RS485 (for 7000 Series)<br>Dry Contacts Alarm Indication for Customer Use<br>Audible Alarm (Option for 6010/20; Standard for 7000 Series & Above);<br>Voltage Adjust Potentiometer;<br>Speed Adjust Potentiometer; |

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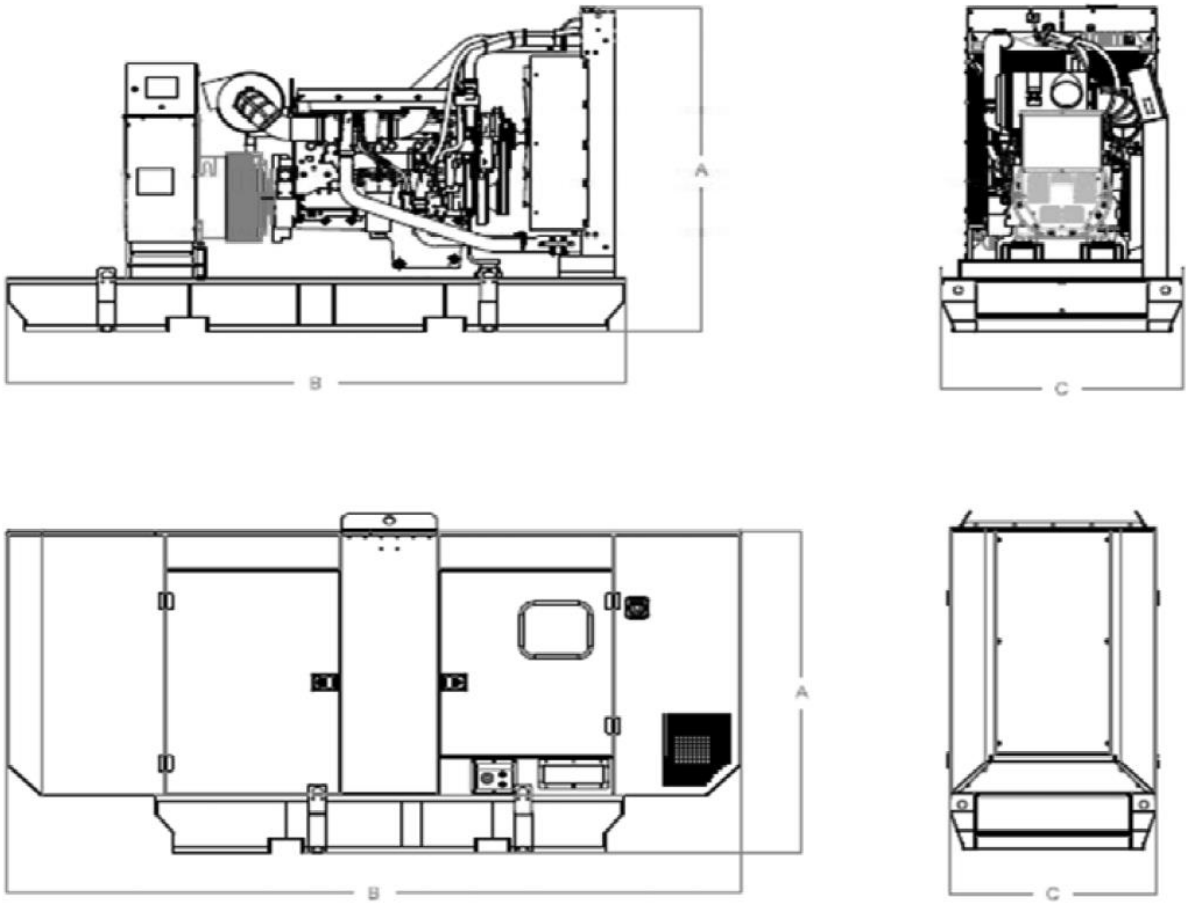
| Dimensions & Weights | | | | |
|---|---|---|---|---|
| | **Length (mm)** | **Width (mm)** | **Height (mm)** | **Weight Dry (Kg)** |
| **Open set** | 3850 | 1320 | 2277 | 6000 |
| **SPC Type** | 5500 | 2100 | 2500 | 7900 |

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In line with our policy of continuous product development, we reserve the right to change specification without notice.

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