

# GORAN GENERATOR

## GGP1385 GENSET Generating Set Powered By Perkins **STAMFORD**



Image for illustration purposes only

### Output Ratings

| Generating Set Model  | Prime Power       | Standby Power     |
|-----------------------|-------------------|-------------------|
| 1500rpm, 50 Hz / 400V | 1000KWe / 1250KVA | 1000KWe / 1385KVA |
| 1800rpm, 60 Hz / 440V | 1000KWe / 1250KVA | 1110KWe / 1375KVA |

### Genset Specifications

**Engine Make & Model** Perkins 46-4012TWG2A

**Origin** UK

**Alternator Type** Stamford PI734A

**Control Panel** Deap Sea - 7310

**Circuit Breaker Type** 3 Pole ACB

**Tropical Cooling System**

**Digital Electronic Governor**

**Turbocharged**

**Exceptional Power to Weight Ratio**

**Fuel System** %50 %75 %100

1500rpm, 50 Hz 143 196 259

1800rpm, 60Hz - - 266

\*Prime Power (l/hr)

### International Standards

Engine confirm to ISO 9001:2000, ISO 14001, ISO 10054, ISO 3046, BS 5514, DIN 6271.  
Alternator confirm to ISO 9001, ISO 14001, BS EN 60034, BS 5000, VDE 0530, NEMA MG32-I, IEC34 CSA C-22.2100, AS 1359, BS 1 6861, B En -6-610002:2001



### RATING GUIDELINES

**PRIME POWER** rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for governing purpose is available for this rating.

**MAXIMUM STANDBY POWER** rating corresponds to ISO Standard Fuel Stop Power. It is applicable for supplying standby electrical power at variable load in areas with well established electrical networks in the event of normal utility power failure. No overload capability is available for this rating. **1 hp = 1 kW x 1.36**

### Engine Technical Data

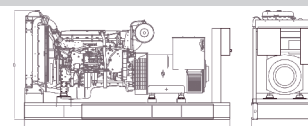
|                                     |                |
|-------------------------------------|----------------|
| <b>No. of Cylinders / Alignment</b> | 12 In Line/°60 |
| <b>Cycle</b>                        | 4 Stroke       |
| <b>Aspiration</b>                   | Turbocharged   |
| <b>Injection</b>                    | Direct         |
| <b>Bore, mm</b>                     | 160            |
| <b>Stroke, mm</b>                   | 190            |
| <b>Displacement, l</b>              | 45.842         |
| <b>Compression Ratio</b>            | 13.6:1         |
| <b>Starting</b>                     | 24V Electric   |
| <b>Alternators, Amps</b>            | 24V/40A        |

### Alternator Technical Data

|                             |                |
|-----------------------------|----------------|
| <b>No. of Bearings</b>      | Single Bearing |
| <b>Insulation System</b>    | Class H        |
| <b>Excitation</b>           | PMG            |
| <b>Voltage Regulator</b>    | MX341          |
| <b>Protection</b>           | IP23           |
| <b>Temperature Rise, °C</b> | 125            |
| <b>Regulation</b>           | %1.0±          |
| <b>No. of Phases</b>        | 3              |
| <b>No. of Poles</b>         | 4              |

### Dimensions & Weights

| Length(m) | Width(m) | Height(m) | Weight(kg) | Tank Capacity(L) |
|-----------|----------|-----------|------------|------------------|
| 5.10      | 1.85     | 2.55      | 9250       | N/A              |



# GGP1385 GENSET

Generating Set Powered By  Perkins **STAMFORD**

| Performances                 | 1500rpm    | 1800rpm    |
|------------------------------|------------|------------|
| <b>Alternator Efficiency</b> | %94.4      | %94.2      |
| <b>Engine Power</b>          | 1414 1055) |            |
| Prime Power, KWm(hp)         | 1563 1166) | 1414 1055) |
| Standby Power, KWm(hp)       |            | 1563 1166) |
| <b>Alternator</b>            |            |            |
| Prime Power, KW              | 1008       | 1200       |

| Lubrication System                            | 1500rpm                   | 1800rpm |
|---|---------------------------|---------|
| <b>Oil Consumption (l/hr)</b>                 | %0.25 of fuel consumption |         |
| <b>Oil Sump Capacity, l</b>                   | 159                       |         |
| <b>Oil System Capacity Include Filters, l</b> | 177                       |         |

| Cooling System   | 1500rpm        | 1800rpm     |
|--|----------------|-------------|
| <b>Heat Radiation from Engine and Alternator, Power KW</b>         | 89             | 135.8       |
| <b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b> | 403            | 450         |
| <b>Radiator Cooling Air Flow, m<sup>3</sup>/min (cfm)</b>          | 59327.52 1680) | 38987 1104) |
| <b>Coolant Capacity, l</b>   | 201            |             |

| Intake & Exhaust System   | 1500rpm   | 1800rpm   |
|---|-----------|-----------|
| <b>Air Flow Combustion at Standby Power, m<sup>3</sup>/min(cfm)</b> | 3849 109) | 4026 114) |
| <b>Heat Rejection Exhaust at Standby Power, KW</b>                  | 1009      | 1055      |
| <b>Exhaust Gas Temperature at Standby °C</b>                        | 422       | 430       |
| <b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>             | 5.0       | 5.0       |
| <b>Exhaust Gas Flow at Standby Power, m<sup>3</sup>/min(cfm)</b>    | 8298 235) | 8299 235) |

| Accessories              |                           |
|--------------------------|---------------------------|
| Stainless Steel Flexible | Anti-Vibration Pads       |
| Standard Silencer        | Battery Disconnect Switch |

| Control Panel Readings   |
|--|
| <ul style="list-style-type: none"> <li>• AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.</li> <li>• Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load</li> <li>• Oil pressure, water temperature, low oil level, high oil temperature</li> <li>• DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure</li> <li>• Low coolant level - Configurable inputs&amp;outputs</li> <li>• Upgradable for GSM network connection, Signal SMS messages.</li> </ul> |

| Optional Equipment   |
|--|
| <ul style="list-style-type: none"> <li>• <b>Engine</b></li> <li>-Coolant heater</li> <li>-Oversize batteries</li> <li>-Extra fuel pre-filter water separator</li> <li>• <b>Alternator</b></li> <li>12- wire reconnectable stator/terminal arrangement</li> <li>-Upgrade to AVR MX321</li> <li>-Qadrature droop kit</li> <li>-Anti-condensation heater</li> <li>-Air inlet filters</li> <li>• <b>General</b></li> <li>-Upgrade to modular controller for paralleling</li> <li>-Upgrade to ACB</li> <li>-Battery charger</li> <li>-Automatic transfer switch</li> <li>-Fuel level switch High / Low for alarm and control</li> <li>-Fuel transfer pump Automatic / Manual</li> <li>-Residential grade silencer</li> <li>-Weather protective and acoustic enclosure.</li> </ul> |

| Spare Parts Kit (Optional) | Genuine - Perkins |
|----------------------------|-------------------|
| Oil filter, full flow      | (3)               |
| Fuel filter                | (1)               |
| Air filter                 | (2)               |
| Fan belt set               | (1)               |
| Alternator belt set        | (1)               |

| General Information   |
|---|
| <b>Documentation</b><br>Engine instruction book-English<br>Alternator manual- English<br>Wiring diagram |

**Warranty**  
 One year or 1000 thousand hours whichever elapsed first against all defects in material / or workmanship, subject to the terms and conditions of the Manufacturer's warranty.