

GORAN GENERATOR

GGP1650 GENSET

Generating Set Powered By  Perkins



Image for illustration purposes only

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	1200KWe / 1500KVA	1320KWe / 1650KVA
1800rpm, 60 Hz / 440V	1200KWe / 1500KVA	1330KWe / 1675KVA

Genset Specifications

Engine Make & Model Perkins 46-4012TAG2A

Origin UK

Alternator Type Stamford PI734C

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	157	234	310
1800rpm, 60Hz	171	195	319

*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

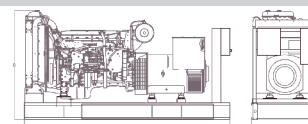
No. of Cylinders / Alignment	12V/°60
Cycle	4 Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	160
Stroke, mm	190
Displacement, l	45.842
Compression Ratio	13:1
Starting	24V Electric
Alternators, Amps	24V/40A

Alternator Technical Data

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

Dimensions & Weights

Length(m)	Width(m)	Height(m)	Weight(kg)	Tank Capacity(L)
5.40	2.20	2.55	9900	N/A



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Performances

	1500rpm	1800rpm
Alternator Efficiency	%95.4	%95.2
Engine Power		
Prime Power, KWm(hp)	1700(1267)	1706(1272)
Standby Power, KWm(hp)	1870(1395)	1876(1399)
Alternator		
Prime Power, KWe	1240	1452

Lubrication System

	1500rpm	1800rpm
Oil Consumption (l/hr)	%0.75 of fuel consumption	
Oil Sump Capacity, l	157.5	
Oil System Capacity Include Filters, l	177	

Cooling System

	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	6352(107)	6779(119.2)
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	501	252
Radiator Cooling Air Flow, m³/min (cfm)	68650.4(1944)	46827(1326)
Coolant Capacity, l	210	

Intake & Exhaust System

	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	4510(128)	2543(72)
Heat Rejection Exhaust at Standby Power, KW	1080	680
Exhaust Gas Temperature at Standby °C	455	430
Max Allowable Back Pressure in Exhaust Line, Kpa	5.0	6.0
Exhaust Gas Flow at Standby Power, m³/min(cfm)	11300(320)	6709(190)

Accessories

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

Control Panel Readings

- AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
- Low oil pressure, high water temperature, boost pressure and temperature, KW, KWh, KVA, KVAR, fuel consumption, relative load
- Oil pressure, water temperature, low oil level, high oil temperature
- DC alternator failure, over speed, over crank (Fail to start), over under voltage, over under current, any sensor failure
- Low coolant level - Configurable inputs&outputs
- Upgradable for GSM network connection, Signal SMS messages.

Optional Equipment

- **Engine**
 - Coolant heater
 - Oversize batteries
 - Extra fuel pre-filter water separator
- **Alternator**
 - 12- wire reconnectable stator/terminal arrangement
 - Upgrade to AVR MX321
 - Qadrature droop kit
 - Anti-condensation heater
 - Air inlet filters
- **General**
 - Upgrade to modular controller for paralleling
 - Upgrade to ACB
 - Battery charger
 - Automatic transfer switch
 - Fuel level switch High / Low for alarm and control
 - Fuel transfer pump Automatic / Manual
 - Residential grade silencer
 - Weather protective and acoustic enclosure.

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

Documentation

Engine instruction book-English
Alternator manual- English
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.

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