

GORAN GENERATOR



GGC1400 GENSET

Generating Set Powered By



STAMFORD

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	1020KWe / 1275KVA	1120KWe / 1400KVA
1800rpm, 60 Hz / 440V	1135KWe / 1418KVA	1250KWe / 1610KVA

Genset Specifications

Engine Make & Model Cummins KTA50G3

Origin India

Alternator Type Stamford PI734A

Control Panel Deap Sea - 7310

Circuit Breaker Type 3 Pole ACB

Water Cooling System

Electronic Governor

Emission Compliant

Fuel System

	50%	75%	100%
1500rpm, 50 Hz	139	199	261
1800rpm, 60Hz	157	222	291

*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 MG1-32, IEC34 CSA C22.2-100, AS 1359, BS 6861 I, B En 61000-6-2:2001



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

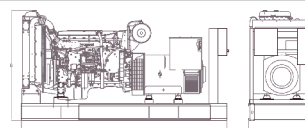
No. of Cylinders / Alignment	16/60°V
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	158.8
Stroke, mm	158.8
Displacement, l	50
Compression Ratio	13.9:1
Starting	24V Electric
Alternators, Amps	24V/35A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX34I
Protection	IP23
Temperature Rise, °C	125
Regulation	±1.0%
No. of Phases	3
No. of Poles	4

Dimensions & Weights

	Tank			
	Length(m)	Width(m)	Height(m)	Weight(kg) Capacity(L)
	5.30	2.00	2.35	9250 N/A



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Performances

1500rpm

1800rpm

Alternator Efficiency 94.4% 94.2%

Engine Power

Prime Power, KWm(hp) 1074(1440) 1182(1585)
Standby Power, KWm(hp) 1192(1598) 1328(1781)

Alternator 1008 1200
Prime Power, KWm

Lubrication System

1500rpm

1800rpm

Oil Consumption (l/hr) 0.03 0.03

Oil Sump Capacity, l 151

Oil System Capacity Include Filters, l 177

Cooling System

1500rpm

1800rpm

Heat Radiation from Engine and Alternator, Power KW 150 176

Heat Rejection to Coolant and Lube Oil at Standby Power, KW 775 900

Radiator Cooling Air Flow, m³/s 30.3 34.6

Coolant Capacity, l 313

Intake & Exhaust System

1500rpm

1800rpm

Air Flow Combustion at Standby Power, m³/min(cfm) 104.76(3700) 110.4(3900)

Heat Rejection Exhaust at Standby Power, KW 845 935

Exhaust Gas Temperature at Standby °C 525 475

Max Allowable Back Pressure in Exhaust Line, Kpa 6.8 6.8

Exhaust Gas Flow at Standby Power, m³/min(cfm) 257.7(8500) 240.66(9100)

Accessories

Oil Drain Pump **Anti-Vibration Pads**

Stainless Steel Flexible **Genuine Oil**

Oil (VDS3 15/40) **Genuine Coolant**

Coolant 'Ready Mix' **Fuel Tank Base Frame for 8hrs**

Standard Silencer

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
- Oil pressure, 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
 - Battery Disconnect Switch
 - Electrical Governor
- **Alternator**
 - Excitation Boost System (EBS)
 - Upgrade to 3 phase sensing AVR
 - Qadrature droop kit
 - Anti-condensation heater
 - Air inlet filters
- **General**
 - Upgrade to modular controller for paralleling
 - Upgrade to 4 pole circuit breaker
 - 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 - Cummins

Oil filter (2)
Fuel filter (2)
Air filter (1)
Fan belt set (1)
Coolant filter (2)

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.

GORAN

GENERATOR

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