



# KGC300 GENSET

Generating Set Powered By



**STAMFORD**

## Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	240KWe / 300KVA	264KWe / 330KVA
1800rpm, 60 Hz / 440V	275KWe / 344KVA	300KWe / 375KVA

## Genset Specifications

<b>Engine Make &amp; Model</b>	Cummins QSL9G5
<b>Origin</b>	India
<b>Alternator Type</b>	Stamford S4L1D-D41
<b>Control Panel</b>	Deap Sea - 7310
<b>Circuit Breaker Type</b>	3 Pole MCCB
<b>Water Cooling System</b>	
<b>Electronic Governor</b>	
<b>Emission Compliant</b>	

## Fuel System

	50%	75%	100%
1500rpm, 50 Hz	31	46	63
1800rpm, 60Hz	36	55	75

\*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

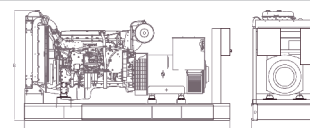
<b>No. of Cylinders / Alignment</b>	6/ In Line
<b>Cycle</b>	4 - Stroke
<b>Aspiration</b>	Turbocharged
<b>Injection</b>	Direct
<b>Bore, mm</b>	114
<b>Stroke, mm</b>	145
<b>Displacement, l</b>	8.8
<b>Compression Ratio</b>	16.8:1
<b>Starting</b>	24V Electric
<b>Alternators, Amps</b>	24V/70A

## Alternator Technical Data

<b>No. of Bearings</b>	Single Bearing
<b>Insulation System</b>	Class H
<b>Excitation</b>	Self Excited
<b>Voltage Regulator</b>	AS440
<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)
2.95	1.08	1.90	2300	315



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Performances	1500rpm	1800rpm
<b>Alternator Efficiency</b>	93%	93%
<b>Engine Power</b>		
Prime Power, KWm(hp)	258(345)	293(392)
Standby Power, KWm(hp)	297(398)	337(451)
<b>Alternator</b>		
Prime Power, KW	240	288

Lubrication System	1500rpm	1800rpm
<b>Oil Consumption (l/hr)</b>	0.03	0.03
<b>Oil Sump Capacity, l</b>	22.7	
<b>Oil System Capacity Include Filters, l</b>	26.5	

Cooling System	1500rpm	1800rpm
<b>Heat Radiation from Engine and Alternator, Power KW</b>	35	40
<b>Heat Rejection to Coolant and Lube Oil at Standby Power, KW</b>	120	140
<b>Radiator Cooling Air Flow, m<sup>3</sup>/s (cfm)</b>	474(16739)	480(16951)
<b>Coolant Capacity, l</b>	26	

Intake & Exhaust System	1500rpm	1800rpm
<b>Air Flow Combustion at Standby Power, m<sup>3</sup>/min(cfm)</b>	20.4(715)	24.6(870)
<b>Heat Rejection Exhaust at Standby Power, KW</b>	240	305
<b>Exhaust Gas Temperature at Standby °C</b>	560	580
<b>Max Allowable Back Pressure in Exhaust Line, Kpa</b>	10	10
<b>Exhaust Gas Flow at Standby Power, m<sup>3</sup>/min(cfm)</b>	52.8(1870)	64.8(2300)

Accessories	
<b>Oil Drain Pump</b>	<b>Anti-Vibration Pads</b>
<b>Stainless Steel Flexible</b>	<b>Genuine Oil</b>
<b>Oil (VDS3 15/40)</b>	<b>Genuine Coolant</b>
<b>Coolant 'Ready Mix'</b>	<b>Fuel Tank Base Frame for 8hrs</b>
<b>Standard Silencer</b>	

## 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	(1)
Fuel filter water separator	(1)
Fuel filter	(1)
Air filter	(1)
Fan belt set	(1)
Coolant filter	(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.

