



KGC100 GENSET

Generating Set Powered By  **STAMFORD**

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V 80KWe / 100KVA		88KWe / 110KVA
1800rpm, 60 Hz / 440V	-	-

Genset Specifications

Engine Make & Model	Cummins 6BTA5.9G5
Origin	India
Alternator Type	Stamford UCI274C
Control Panel	Deap Sea - 6110
Circuit Breaker Type	3 Pole MCCB
Water Cooling System	
Electronic Governor	
Electrical Stop Solenoid, Energized to Run	
Compact Size	

Fuel System	50%	75%	100%
1500rpm, 50 Hz	12	18	25
1800rpm, 60Hz	-	-	-

*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

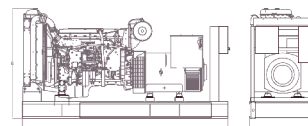
No. of Cylinders / Alignment	6/ In Line
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	102
Stroke, mm	120
Displacement, l	5.9
Compression Ratio	17.6:1
Starting	12V Electric
Alternators, Amps	12V/55A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	Self Excited
Voltage Regulator SX460	SX460
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)
2.50	0.85	1.20	1200	125



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Performances	1500rpm	1800rpm
Alternator Efficiency	90.3%	-
Engine Power		
Prime Power, KWm(hp)	90(121)	-
Standby Power, KWm(hp)	98(131)	-
Alternator		
Prime Power, KW	83.886	-

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr)	-	-
Oil Sump Capacity, l	14.3	-
Oil System Capacity Include Filters, l	16.4	-

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	12	-
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	78	-
Radiator Cooling Air Flow, m³/s	3.59	-
Coolant Capacity, l	28.85	-

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	7.86(276)	-
Heat Rejection Exhaust at Standby Power, KW	85	-
Exhaust Gas Temperature at Standby °C	533	-
Max Allowable Back Pressure in Exhaust Line, Kpa	10.25	-
Exhaust Gas Flow at Standby Power, m³/min(cfm)	21.42(755)	-

Accessories	
Oil Drain	Anti-Vibration Pads
Stainless Steel Flexible	Battery Disconnect Switch
Genuine Oil	Coolant 'Ready Mix'
Genuine Coolant	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	(1)
Fuel filter	(1)
Air filter	(1)
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.

