



Output Ratings Generating Set Model Prime Power Standby Power 1500rpm, 50 Hz / 400V - - 1800rpm, 60 Hz / 440V 91KWe / 114KVA 100KWe / 125KVA

Genset Specifications		
Engine Make & Model	Cummins 6BTA5.9G6	
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		

Fuel System	50%	75%	100%
1500rpm, 50 Hz	-	-	-
1800rpm, 60Hz	16	23	31

^{*}Prime Power (I/hr)

Compact Size

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 1, B En 61000-6-2:2001



RATING GUIDELINES

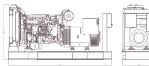
PRIME POWER rating corresponds to ISO Standard Power for continuous operation. It is applicable for supplying electrical power at variable load for an unlimited number of hours instead of commercially purchased power. A10 % overload capability for govering purpose is available for this rating.

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. I hp = I 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,I	5.9
Compression Ratio	17.3:1
Starting	I2V Electric
Alternators, Amps	12V/55A

Alternator Technical Data			
No. of Bearings	Single Bearing		
Insulation System	Class H		
Excitation	Self Excited		
Voltage Regulator	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
	FAL			



KGC114 GENSET Generating Set Powered By

STAMFORD

Performances	I500rpm	1800rpm
Alternator Efficiency	-	90.6%
Engine Power Prime Power, KWm(hp) Standby Power, KWm(hp)	<u>-</u> -	109(146) 120(161)
Alternator Prime Power, KWe	-	107

Lubrication System	I500rpm	1800rpm
Oil Consumption (I/hr)	-	0.08% of fuel consumption
Oil Sump Capacity,I	-	14.3
Oil System Capacity Include Filters,I	-	16.4

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	-	14
Heat Rejection to Coolant and Lube Oil at Standby Power, KW		76
Radiator Cooling Air Flow, m³/s	-	6.17
Coolant Capacity, I	-	28.85

Intake & Exhaust System	I500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	-	10.5(370)
Heat Rejection Exhaust at Standby Power, KW	-	126
Exhaust Gas Temperature at Standby °C	-	551
Max Allowable Back Pressure in Exhaust Line, Kpa	-	10
Exhaust Gas Flow at Standby Power, m³/min(cfm)	-	28.2(995)

Accessories	
Oil Drain Pump	Genuine Coolant
Stainless Steel Flexible	Anti-Vibration Pads
Standard Silencer	Battery Disconnector Switch
Genuine Oil	Fuel Tank Base Frame for 8hrs

Control Panel Readings

- AC volts, AC currents, DC volts, frequency, rpm, hour counter, power factor.
- Low oil pressure, high water temparature, 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 Disconnector 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 Fuel filter Air filter Fan belt set Alternator belt set	(1) (1) (1) (1) (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.

