



## KMGC1100 GENSET

Generating Set Powered By



STAMFORD LEROY-SOMER™

### Output Ratings

Speed, Frequency/Volt	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	800KWe/1000kVA	880KWe/1100kVA

### Genset Specifications

Engine Make & Model	Cummins QST30-G4
Origin	USA
Alternator Type	S6L1D-E4I/TAL049E
Control Panel	Deep Sea - 7310 MKII
Circuit Breaker Type	3Pole MCCB

### Water Cooling System

Electronic Governor

Fuel System (prime)	50%	75%	100%
1500rpm, 50 Hz (L/hr)	102	151	202

### International Standards

Engine confirm to ISO 9001:2000, ISO 14001, ISO10054, 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. A 10 % 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.  $1 \text{ hp} = 1 \text{ kW} \times 1.36$

### Engine Technical Data

No. of Cylinders / Alignment	12/50° V
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	140
Stroke, mm	165.1
Displacement, l	30.5
Compression Ratio	14:1
Starting	24V Electric
Alternators, Amps	24V/35A

### Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG/Self excited
Voltage Regulator	MX341/R150
Protection	IP23
Temperature Rise, °C	Prime 125/40
Regulation	±1.0% / ±0.8%
No. of Phases	3
No. of Poles	4

### Dimensions (m) & Weights (kg)

	L	W	H	Weight	Tank Capacity(L)
Open	4.56	2.07	2.36	7550	NA
Enclosed	7.00	2.24	2.54	10600	NA

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Performances	1500rpm
Alternator Efficiency	95.1%
<b>Engine Power</b>	
Prime Power, KWm(hp)	853(1143)
Standby Power, KWm(hp)	943(1264)
<b>Alternator</b>	
Prime Power, KWe	840

## 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.

Lubrication System	1500rpm
Oil Consumption (l/hr)	0.03
<b>Oil Sump Capacity, l</b>	133
Oil System Capacity Include Filters, l	154

## 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.

Intake & Exhaust System	1500rpm
Air Flow Combustion at Standby Power, m <sup>3</sup> /min(cfm)	60.3(2130)
Heat Rejection Exhaust at Standby Power, KW	670
Exhaust Gas Temperature at Standby °C	575
Max Allowable Back Pres- sure in Exhaust Line, Kpa	6.8
Exhaust Gas Flow at Standby Power, m <sup>3</sup> /min(cfm)	178.8(6310)

## Spare Parts Kit (Optional)      Genuine - Cummins

Oil filter	(2)
Fuel filter	(2)
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 with unlimited hours against all defects in material or workmanship, subject to the terms and conditions of the Manufacturer's warranty

