

GORAN

GENERATOR

GGC1100 GENSET

Generating Set Powered By



STAMFORD



Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V	800KWe / 1000KVA	880KWe / 1100KVA
1800rpm, 60 Hz / 440V	910KWe / 1138KVA	1000KWe / 1250KVA

Genset Specifications

Engine Make & Model	Cummins QST30G4
Origin	USA
Alternator Type	Stamford HCI634J
Control Panel	Deep Sea - 7310
Circuit Breaker Type	3 Pole MCCB
Water Cooling System	
Electronic Governor	
Emission Compliant	

Fuel System	50%	75%	100%
1500rpm, 50 Hz	102	151	202
1800rpm, 60Hz	119	177	240

*Prime Power (l/hr)

International Standards

Engine conform to ISO 9001:2000,ISO 14001,ISO10054,ISO 3046,BS 5514,DIN 6271. Alternator conform 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. 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

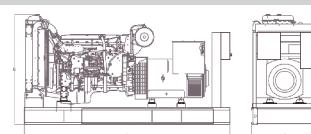
No. of Cylinders / Alignment	12/50°V
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	140
Stroke, mm	165.1
Displacement,l	30.5
Compression Ratio	14:1
Starting	24V Electric
Alternators,Amps	24V/35A

Alternator Technical Data

No. of Bearings	Single Bearing
Insulation System	Class H
Excitation	PMG
Voltage Regulator	MX32I
Protection	IP23
Temperature Rise, °C	125
Regulation	±0.5%
No. of Phases	3
No. of Poles	4

Dimensions & Weights

Length(m)	Width(m)	Height(m)	Weight(kg)	Capacity(L)	Tank
4.70	2.10	2.40	7550	N/A	



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Performances	1500rpm	1800rpm
Alternator Efficiency	95.1%	95.1%
Engine Power		
Prime Power, KWm(hp)	853(1143)	965(1294)
Standby Power, KWm(hp)	943(1264)	1070(1434)
Alternator		
Prime Power, KWe	824	960

Lubrication System	1500rpm	1800rpm
Oil Consumption (l/hr)	0.03	0.03
Oil Sump Capacity,l	133	
Oil System Capacity Include Filters,l	154	

Cooling System	1500rpm	1800rpm
Heat Radiation from Engine and Alternator, Power KW	115	130
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	335	365
Radiator Cooling Air Flow, m³/s (cfm)	126	1024(36162)
Coolant Capacity,l	271	

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m³/min(cfm)	60.3(2130)	80.4(2840)
Heat Rejection Exhaust at Standby Power, KW	670	740
Exhaust Gas Temperature at Standby °C	575	525
Max Allowable Back Pressure in Exhaust Line, Kpa	6.8	6.8
Exhaust Gas Flow at Standby Power, m³/min(cfm)	178.8(6310)	220.2(7775)

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	

✉ gorangenerator@gorangroup.com

🏡 Iraq-Erbil-60M str.

📞 07504483162 - 07704483162

🌐 www.gorangroup.com

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 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	(2)
Fuel filter	(2)
Air filter	(1)
Fan belt set	(1)
Coolant filter	(4)

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.

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