

GORAN GENERATOR



GGC50 GENSET

Generating Set Powered By



STAMFORD

Output Ratings

| Generating Set Model | Prime Power | Standby Power |
|-----------------------|---------------|---------------|
| 1500rpm, 50 Hz / 400V | - | - |
| 1800rpm, 60 Hz / 440V | 36KWe / 45KVA | 40KWe / 50KVA |

Genset Specifications

| | |
|--|-----------------|
| Engine Make & Model | Cummins S3.8 G8 |
| Origin | India |
| Alternator Type | Stamford P1144K |
| Control Panel | Deap Sea - 6110 |
| Circuit Breaker Type | 3 Pole MCB |
| Water Cooling System | |
| Mechanical Governor | |
| Electrical Stop Solenoid, Energized to Run | |
| Compact Size | |

Fuel System

| | %50 | %75 | %100 |
|----------------|-----|-----|------|
| 1500rpm, 50 Hz | - | - | - |
| 1800rpm, 60Hz | 6.0 | 8.5 | 11.1 |

*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 MG32-I, IEC34 CSA C-22.2100, AS 1359, BS 1 6861, B En -6-610002:2001



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. $1 \text{ hp} = 1 \text{ kW} \times 1.36$

Engine Technical Data

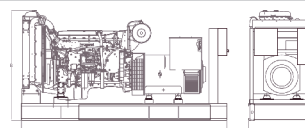
| | |
|------------------------------|--------------|
| No. of Cylinders / Alignment | 4/ In Line |
| Cycle | 4 - Stroke |
| Aspiration | Turbocharged |
| Injection | Mechanical |
| Bore, mm | 97 |
| Stroke, mm | 128 |
| Displacement, l | 3.8 |
| Compression Ratio | 17.5:1 |
| Starting | 12V Electric |
| Alternators, Amps | 12V/40A |

Alternator Technical Data

| | |
|----------------------|----------------|
| No. of Bearings | Single Bearing |
| Insulation System | Class H |
| Excitation | Self Excited |
| Voltage Regulator | AS480 |
| 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) |
|-----------|----------|-----------|------------|------------------|
| 2.05 | 0.90 | 1.30 | 890 | 95 |



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Performances

1500rpm

1800rpm

Alternator Efficiency - %87.7

Engine Power

Prime Power, KWm(hp) - 61(45)
Standby Power, KWm(hp) - 67.5(50)

Alternator 42
Prime Power, KWe -

Lubrication System

1500rpm

1800rpm

Oil Consumption (l/hr) - %0.150 of fuel consumption

Oil Sump Capacity, l - 9

Oil System Capacity Include Filters, l - 10

Cooling System

1500rpm

1800rpm

Heat Radiation from Engine and Alternator, Power KW - 5

Heat Rejection to Coolant and Lube Oil at Standby Power, KW - 33

Radiator Cooling Air Flow, m³/s (cfm) - 4386(2.07)

Coolant Capacity, l - 19.5

Intake & Exhaust System

1500rpm

1800rpm

Air Flow Combustion at Standby Power, m³/min(cfm) - 158(4.47)

Heat Rejection Exhaust at Standby Power, KW - 32

Exhaust Gas Temperature at Standby °C - 451

Max Allowable Back Pressure in Exhaust Line, Kpa - 6.7

Exhaust Gas Flow at Standby Power, m³/min(cfm) - 165(4.67)

Accessories

Oil Drain **Anti-Vibration Pads**

Stainless Steel Flexible **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.

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