

# ICG300 GENSET

Generating Set Powered By



**LEROY SOMER**  
**STAMFORD**

## Output Ratings

| Generating Set Model  | Prime Power     | Standby Power   |
|-----------------------|-----------------|-----------------|
| 1500rpm, 50 Hz / 400V | 292KWe / 365KVA | 320KWe / 400KVA |
| 1800rpm, 60 Hz / 440V | -               | -               |

## Genset Specifications

|                      |                  |
|----------------------|------------------|
| Engine Make & Model  | Cummins NTA855G4 |
| Origin               | USA              |
| Alternator Type      | UCI444E          |
| Control Panel        | Digital Deep Sea |
| Circuit Breaker Type | 3 Pole MCCB      |

### Water Cooling System

Mechanical Governor

Electrical Stop Solenoid, Energized to Run

Compact Size

| Fuel System    | 50% | 75% | 100% |
|----------------|-----|-----|------|
| 1500rpm, 50 Hz | 39  | 57  | 76   |
| 1800rpm, 60Hz  | -   | -   | -    |

\*Prime Power (l/hr)

## 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

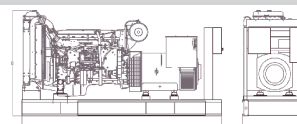
|                              |              |
|------------------------------|--------------|
| No. of Cylinders / Alignment | 6/ In Line   |
| Cycle                        | 4 - Stroke   |
| Aspiration                   | Turbocharged |
| Injection                    | Direct       |
| Bore, mm                     | 140          |
| Stroke, mm                   | 152          |
| Displacement, l              | 14           |
| Compression Ratio            | 14.0:1       |
| Starting                     | 24V Electric |
| Alternators, Amps            | 24V/55A      |

## Alternator Technical Data

|                      |                |
|----------------------|----------------|
| No. of Bearings      | Single Bearing |
| Insulation System    | Class H        |
| Excitation           | Self Excited   |
| Voltage Regulator    | AS440          |
| Protection           | IP23           |
| Temperature Rise, °C | 125            |
| Regulation           | ±1.0%          |
| No. of Phases        | 3              |
| No. of Poles         | 4              |

## Dimensions & Weight

| Length(m) | Width(m) | Height(m) | Weight(kg) | Tank Capacity(L) |
|-----------|----------|-----------|------------|------------------|
| 3.25      | 1.15     | 2.0       | 3100       | 380              |



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**LEROY**  
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| Performances           | 1500rpm  | 1800rpm |
|------------------------|----------|---------|
| Alternator Efficiency  | 93.5%    | -       |
| <b>Engine Power</b>    |          |         |
| Prime Power, KWm(hp)   | 307(411) | -       |
| Standby Power, KWm(hp) | 337(451) | -       |
| <b>Alternator</b>      |          |         |
| Prime Power, KWe       | 280      | -       |

## 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                   | 1800rpm |
|--|---------------------------|---------|
| Oil Consumption (l/hr)                 | 0.03% of fuel consumption |         |
| Oil Sump Capacity, l                   | 36.0                      |         |
| Oil System Capacity Include Filters, l | 38.6                      |         |

## 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
  - Quadrature 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.

| Cooling System  | 1500rpm | 1800rpm |
|---|---------|---------|
| Heat Radiation from Engine and Alternator, Power KW         | 51      | -       |
| Heat Rejection to Coolant and Lube Oil at Standby Power, KW | 206     | -       |
| Radiator Cooling Air Flow, m <sup>3</sup> /s                | 7.6     | -       |
| Coolant Capacity, l   | 65.8    |         |

| Intake & Exhaust System  | 1500rpm    | 1800rpm |
|--|------------|---------|
| Air Flow Combustion at Standby Power, m <sup>3</sup> /min(cfm) | 26(960)    | -       |
| Heat Rejection Exhaust at Standby Power, KW                    | 241        | -       |
| Exhaust Gas Temperature at Standby °C                          | 541        | -       |
| Max Allowable Back Pressure in Exhaust Line, Kpa               | 10.00      | -       |
| Exhaust Gas Flow at Standby Power, m <sup>3</sup> /min(cfm)    | 73.5(2595) | -       |

## Spare Parts Kit (Optional) Genuine - Cummins

|                     |     |
|---------------------|-----|
| Oil filter          | (1) |
| Fuel filter         | (1) |
| Air filter          | (1) |
| Fan belt set        | (1) |
| Alternator belt set | (1) |

## Accessories

|                          |                               |
|--------------------------|-------------------------------|
| Oil Drain Pump           | Anti-Vibration Pads           |
| Stainless Steel Flexible | Oil                           |
| Genuine Oil              | Coolant 'Ready Mix'           |
| Genuine Coolant          | Fuel Tank Base Frame for 8hrs |
| Standard Silencer        |                               |

## 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.