

ICG640 GENSET

Generating Set Powered By



LEROY SOMER
STAMFORD

Output Ratings

Generating Set Model	Prime Power	Standby Power
1500rpm, 50 Hz / 400V512kWe / 640KVA	560KWe / 700KVA	
1800rpm, 60 Hz / 440V545KWe / 681KVA	600KWe / 750KVA	

Genset Specifications

Engine Make & Model	Cummins VTA28G5
Origin	USA
Alternator Type	UCI544F
Control Panel	Digital Deap 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	73.00	104.0	140.0
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

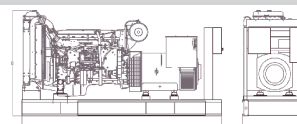
No. of Cylinders / Alignment	12 / 40"
Cycle	4 - Stroke
Aspiration	Turbocharged
Injection	Direct
Bore, mm	139.7
Stroke, mm	152.7
Displacement, l	28
Compression Ratio	13.1:1
Starting	24V Electric
Alternators, Amps	24V / 35A

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)
4.15	1.45	2.40	4350	550



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Performances	1500rpm	1800rpm
Alternator Efficiency	94.9%	94.9%
Engine Power		
Prime Power, KWm(hp)	538(721)	574(770)
Standby Power, KWm(hp)	584(783)	630(875)
Alternator		
Prime Power, KWe	488	570

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
Oil Sump Capacity, l		68
Oil System Capacity Include Filters, l		83

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	94	-
Heat Rejection to Coolant and Lube Oil at Standby Power, KW	380	-
Radiator Cooling Air Flow, m ³ /s	12.5	-
Coolant Capacity, l		206

Intake & Exhaust System	1500rpm	1800rpm
Air Flow Combustion at Standby Power, m ³ /min(cfm)	52.7(1860)	64.6(2280)
Heat Rejection Exhaust at Standby Power, KW	471	508
Exhaust Gas Temperature at Standby °C	507	502
Max Allowable Back Pressure in Exhaust Line, Kpa	10	10
Exhaust Gas Flow at Standby Power, m ³ /min(cfm)	122.9(4340)	142.7(5040)

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	Genuine 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.

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