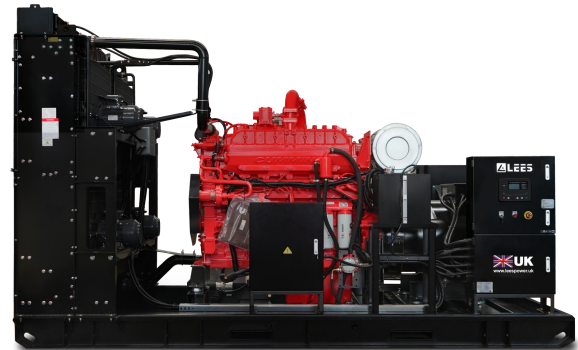


MODEL: LSC600NGE3

Powered by CUMMINS



Model	LSC600NGE3
Electrical Power	600KW
Frequency	50Hz
Voltage	400V
Engine	K38N-G6
Alternator	S6L1D-C41
Fuel System	Electronic Fuel Control Valve
Governor Type	ECU

Standard Features

Engine

- Robust high speed block design provides prolonged life and lower purchasing and operating costs
- High power density and efficiency generator

Set Package

- Top tier electrical efficiency
- Low maintenance and overhaul costs driven by low oil consumption, extended service intervals, and reduced downtime
- Genset reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Alternator

- High-efficiency design
- Designed to match performance and output characteristics of CUMMINS engines

Applications

- LEES generator sets are capable of maximizing power production opportunities in an extensive range of industries

Control Panels

- User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site specific programming for specific customer requirements

Warranty

- 2 years after the genset arrival to the customer site or 1 year after installation and commissioning with unlimited running hours, whichever comes first.

50Hz Humidity/Fuel Tolerant Package Performance – AC and JW Pumps

Performance	Continuous	
Frequency	50 Hz	
Genset power rating @ 0.8 power factor – kW (kVA)	600	(375)
Engine speed – rpm	1500	
Displacement(L)	38	
Compression ratio	11.1	
NOx emission level – mg/Nm ³ (g/bhp-hr) NOx	500	(0.99)
Fuel Consumption		
100% load with fan – MJ/kW-hr (Btu/kW-hr)	9.4	(9194)
75% load with fan – MJ/kW-hr (Btu/kW-hr)	9.7	(9762)
50% load with fan – MJ/kW-hr (Btu/kW-hr)	10.5	(10521)
Cooling System		
Auxiliary circuit temperature (maximum inlet) – °C (°F)	55	(131)
Jacket water temperature (maximum outlet) – °C (°F)	95	(203)
Inlet Air		
Combustion air inlet flow rate (0 °C, 101.3 kPa)/L/s(CFM)	815	(985)
Altitude Capability		
At 25 °C (77 °F) ambient, above sea level – m (ft)	200	(3201)
Exhaust System		
Exhaust temperature – engine outlet – °C (°F)	488	(910)
Exhaust gas flow (0 °C, 101.3 kPa)/L/s(CFM)	2004	(4246)
Heat Rejection		
Heat rejection to jacket water – kW (Btu/min)	357	(20276)
Heat rejection to exhaust – kW (Btu/min)	470	(26732)
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	106	(6008)
Heat rejection to intercooling water – kW (Btu/min)	16	(8877)

Optional Equipment

Engine

Air Cleaner

- ☐ Standard filter
- ☐ Heavy duty filter

General

- ☐ Barring group

Lubrication

- ☐ Lubricating oil(NGEO)
- ☐ Oil level regulator
- ☐ Extended Life Oil Tank

Mufflers

- ☐ Industrial Grade(12-18 dB)
- ☐ Residential Grade(18-25 dB)
- ☐ Hospital Grade(40 dB)

Protection System

- ☐ Explosion Relief Valves

Starting/Charging

- ☐ Battery charger
- ☐ Oversized batteries

Alternator

Output voltage

- ☐ 380V ☐ 400V
- ☐ 415V ☐ 10.5KV
- ☐ 6.3KV

Temperature Rise

(over 40 °C ambient)

- ☐ 105°C
- ☐ 80°C

Attachments

- ☐ Anti-condensation heater
- ☐ Generator RTD module
- ☐ Neutral Ground - LV
- ☐ Differential CTs - HV

Control System

Controller

- ☐ ComAp
- ☐ DSE
- ☐ SmartGen
- ☐ DEIF

Attachments

- ☐ Discrete I/O module
- ☐ Load share module
- ☐ Local annunciator module
- ☐ Remote annunciator module
- ☐ Remote monitoring software

Enclosure

- ☐ Weather protective
- ☐ Sound attenuated

Attachments

- ☐ Cold weather bundle
- ☐ DC lighting package
- ☐ AC lighting package
- ☐ Motorized louvers

Ancillary Equipment

- ☐ Automatic transfer switch(ATS)
- ☐ Uninterruptible power supply(UPS)
- ☐ Synchronization switchgear
- ☐ Synchronization controls

Power Terminals

Circuit Breaker Options

- ☐ UL ☐ IEC
- ☐ 3-pole ☐ 4-pole
- ☐ Manually operated
- ☐ Electrically operated

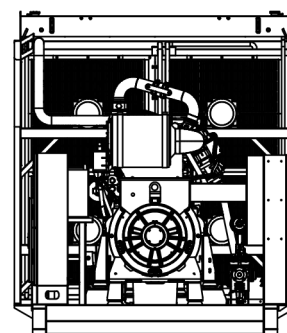
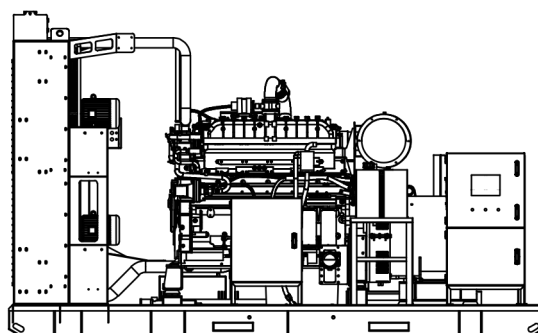
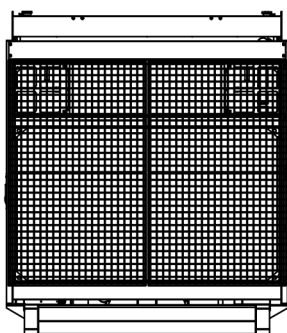
Connect

Connectivity

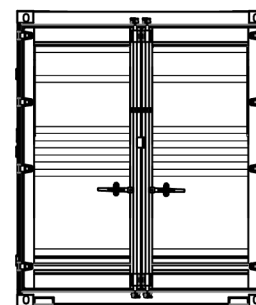
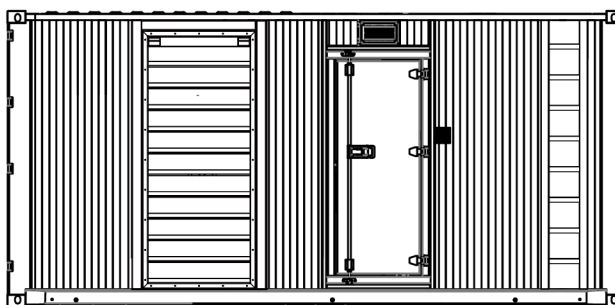
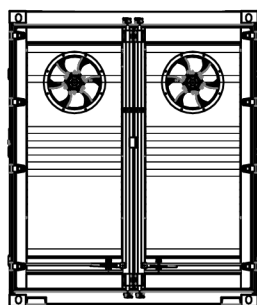
- ☐ Ethernet
- ☐ Satellite
- ☐ Cell

Note: Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability. * Configured Hydrogen Capable Units may experience rating differences on both Natural Gas and H₂ blends based on site conditions - (Fuel blending Source Provided by Customer)

Weights and Dimensions



LSC600NGE3 (Open type)				
Configuration	L = Length (mm)	W = Width (mm)	H = Height (mm)	Weight (kg)
Open Type	4850	2150	2500	7500



LSC600NGE3 (Containerized Type)				
Configuration	L = Length (mm)	W = Width (mm)	H = Height (mm)	Weight (kg)
Containerized Type	20HQ			8530

Note: For reference only. Do not use for installation design. Contact your local LEES dealer for precise weights and dimensions.



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