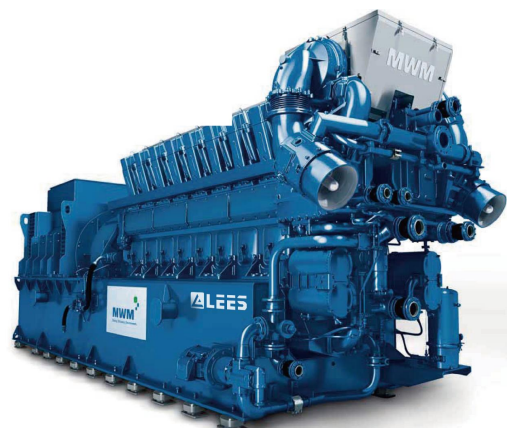


MODEL: LSMW4500NGE3

Powered by MWM



Model	LSMW4500NGE3
Electrical Power	4500KW
Frequency	50Hz
Voltage	10.5KV
Engine	TCG2032B V16R
Alternator	TDPS TD145
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 MWM 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

- 3 years from MWM Germany factory or 2 years 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)	4500	(5625)
Engine speed – rpm	1500	
Displacement(L)	272	
Compression ratio	12	
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)	8.07	7650
75% load with fan – MJ/kW-hr (Btu/kW-hr)	8.32	7887
50% load with fan – MJ/kW-hr (Btu/kW-hr)	8.81	8352
Cooling System		
Auxiliary circuit temperature (maximum inlet) – °C (°F)	55	(133)
Jacket water temperature (maximum outlet) – °C (°F)	93	(199)
Inlet Air		
Combustion air inlet flow rate (0 °C, 101.3 kPa)/kg/h	23385	
Altitude Capability		
At 25 °C (77 °F) ambient, above sea level – m (ft)	100	(328)
Exhaust System		
Exhaust temperature – engine outlet – °C (°F)	381	(7178)
Exhaust gas flow (0 °C, 101.3 kPa)/kg/h	24152	
Heat Rejection		
Heat rejection to jacket water – kW (Btu/min)	2454	139387
Heat rejection to exhaustafter heat exchanger – kW (Btu/min)	1908	108374
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	299	16983
Heat rejection to intercooling water – kW (Btu/min)	267	15165

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

- ☐ 13.8KV
- ☐ 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

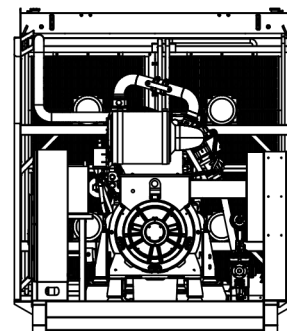
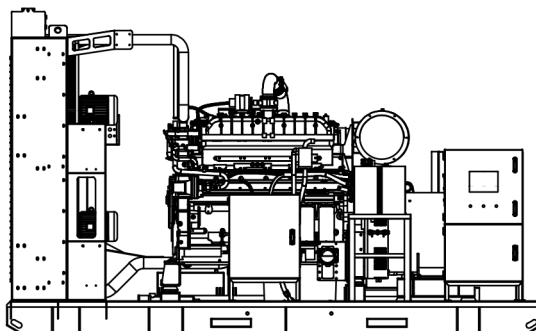
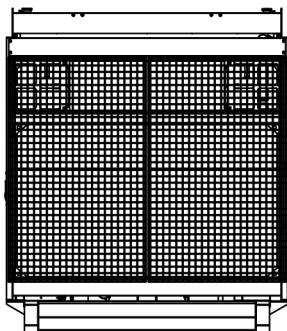
Connect

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



LSMW4500NGE3				
Configuration	L = Length (mm)	W = Width (mm)	H = Height (mm)	Weight (kg)
Open Type	9272	2790	3390	51400




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



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