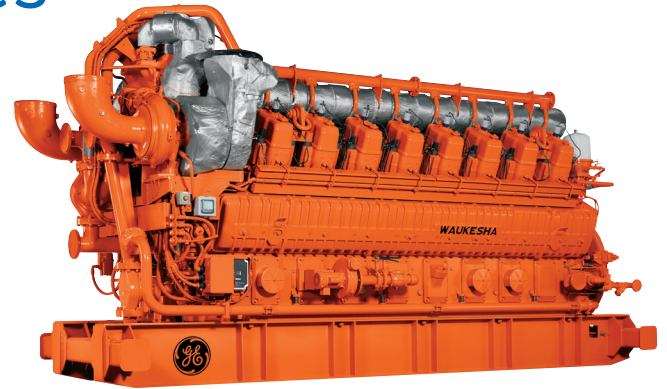




Waukesha^{*} gas engines

275GL^{*}

16V 275GL+



Constant Torque Ratings¹
5000 bhp (3728 kWb) @ 1000 rpm
 4500 bhp (3356 kWb) @ 900 rpm
 3750 bhp (2796 kWb) @ 750 rpm

GE's Waukesha 275GL+ represents the most advanced generation of high-horsepower engines designed for optimum performance in gas compression and other mechanical drive applications. A unique combination of robust construction and innovative technology, the 275GL+

lean-burn engine delivers best-in-class fuel flexibility, efficiency, power output and emissions for unmatched performance.

The 275GL+ features Waukesha's ESM^{*} control, which integrates engine functionality into a single, closed-loop system with direct NOx measurement.

Key components such as the oil filters, oil cooler, pre-lube pump, and jacket water and auxiliary thermostats have been mounted on the engine, simplifying the packaging process and skid layout.

technical data

Cylinders	V 16
Piston displacement	17398 cu. in. (285 L)
Compression ratio	9:1
Bore & stroke	10.83" x 11.81" (275 x 300 mm)
Jacket water system capacity	133 gal. (503 L)
Lube oil capacity	275 gal. (1040 L)
Fuel pressure range	45 - 60 psi (3.1 - 4.1 bar)
Starting system	150 psi (10.3 bar)

Dimensions l x w x h inch (mm)
237.4 (6026) x 91.3 (2320) x 126.4" (3211)

Weights lb (kg)
65,320 (29,624)

^{*}Trademark of General Electric Company

technical features

feature	description	advantages
Best-in-class fuel efficiency	Efficiency advantage at full speed and load; advantage increases at partial speeds and loads	Minimize fuel costs and maximize profits across the entire range of speed and load combinations
Single, closed-loop engine control system	Waukesha's proven ESM* control integrates the following into a single, closed-loop system: <ul style="list-style-type: none"> • Air/Fuel Ratio Control • Wastegate Control • Turbocharger Bypass Control • Ignition Timing • Knock Detection • Fault Monitoring 	Directly measures NOx emissions; adjusts operating parameters to prevent NOx emissions from exceeding 0.5 g/bhp-hr with limited manual intervention or setup
Best-in-class fuel flexibility	More power on more fuels, including full-load down to 600 Btu/ft ³ and operation up to 2300 Btu/ft ³	More power on more fuels means more profits without the additional costs associated with fuel treatment skids. The 275GL+ can achieve full load down to 60% methane and 70% load on pure ethane.
High reliability with long maintenance intervals	Achieves up to 40,000 hours before top-end overhaul and 80,000 hours before bottom end	With low lifecycle costs and the ability to run up to 5 years continuously before overhaul, the 275GL+ is the best choice for the most remote, rugged, and demanding applications.

performance data

Intercooler Water Temperature 130°F (54°C)		1000 RPM	900 RPM
	Power bhp (kWb)	5000 (3728) ¹	4500 (3355) ¹
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	6523 (9228)	6411 (9071)
Emissions	NOx g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.5 (230)	0.5 (230)
	CO g/bhp-hr (mg/Nm ³ @ 5% O ₂)	1.6 (749)	1.5 (695)
	NMHC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.84 (384)	0.83 (391)
	THC g/bhp-hr (mg/Nm ³ @ 5% O ₂)	5.6 (2563)	5.6 (2608)
	Methane g/bhp-hr (mg/Nm ³ @ 5% O ₂)	4.73 (2178)	4.73 (2217)
	Formaldehyde g/bhp-hr (mg/Nm ³ @ 5% O ₂)	0.18 (83)	0.18 (83)
	CO ₂ g/bhp-hr (g/Nm ³ @ 5% O ₂)	422 (194)	414 (194)

All information provided is subject to change without notice. All technical and performance data to be released via SAA - please contact Application Engineering.

Consult your local GE Power representative for system application assistance. The manufacturer reserves the right to change or modify without notice, the design or equipment specifications as herein set forth without incurring any obligation either with respect to equipment previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.

1. Power rating requires option code 1080B

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