

Gas system

SERIES 4000 NATURAL GAS

400V/50 Hz/NO_x < 500 mg/Nm³

System ratings

Gas genset with optional heat recovery module

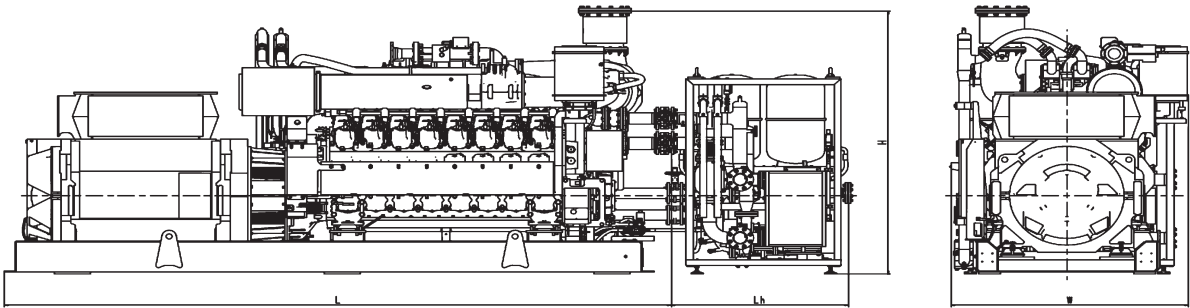
Genset type	Engine type	Output Elect. ¹⁾	Therm. ²⁾	Exhaust ³⁾	Low Temp.	Energy input ⁴⁾	Efficiency		Methane number ⁵⁾
		kW _{el}	kW _{th}	kW _{th} (°C)	kW _{th} (°C)		Electr.	Total	
							n _{el} (%)	n _{tot} (%)	
mtu 8V4000 GS	L64 FNER	999	522	490 (120)	99 (43)	2258	44,3	89,1	≥ 72
mtu 8V4000 GS	L64 FNER	1013	530	494 (120)	59 (43)	2287	44,3	89,1	≥ 72
mtu 12V4000 GS	L64 FNER	1521	788	742 (120)	115 (43)	3443	44,2	88,6	≥ 72
mtu 16V4000 GS	L64 FNER	1999	1043	984 (120)	143 (43)	4519	44,2	89,1	≥ 72
mtu 16V4000 GS	L64 FNER	2028	1060	995 (120)	145 (43)	4583	44,3	89,0	≥ 72
mtu 20V4000 GS	L64 FNER	2539	1236	1355 (120)	211 (43)	5781	43,9	88,7	≥ 72
Hot ambient conditions									
mtu 8V4000 GS	L64 FNER	999	596	476 (120)	50 (58)	2301	43,4	90,0	≥ 80
mtu 8V4000 GS	L64 FNER	1012	604	480 (120)	51 (58)	2329	43,5	90,0	≥ 80
mtu 12V4000 GS	L64 FNER	1521	849	717 (120)	79 (58)	3428	44,4	90,1	≥ 80
mtu 16V4000 GS	L64 FNER	1999	1155	965 (120)	90 (58)	4558	43,9	90,4	≥ 80
mtu 16V4000 GS	L64 FNER	2028	1173	974 (120)	93 (58)	4622	43,9	90,3	≥ 80
mtu 20V4000 GS	L64 FNER	2538	1441	1243 (120)	150 (58)	5781	43,9	90,3	≥ 80
Low methane number		kW _{el}	kW _{th}	kW _{th} (°C)	kW _{th} (°C)	kW	n _{el} (%)	n _{tot} (%)	
mtu 16V4000 GS	L32 ER	1560	951	951 (120)	84 (53)	3848	40,5	89,6	≥ 60
mtu 20V4000 GS	L32 ER	1948	1180	1181 (120)	99 (53)	4812	40,5	89,5	≥ 60

- 1 Rated power at nominal voltage, power factor = 1,0 and nominal frequency
- 2 Heat output from engine cooling with tolerance of ± 8%
- 3 Heat output from exhaust (exhaust cooling to 120°C) with tolerance of ± 8%
- 4 Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%
- 5 Referenced methane number

Project specific data on request:

- different alternator voltage
- different flow-/return-temperatures, hot cooling, methane number, installation conditions etc.
- Container

Drawings and dimensions



Note: This drawing is provided for reference only and should not be used for installation planning.

Genset type	Dimensions genset (LxWxH)	Heat recovery module (LhxWxH)
mtu 8V4000 GS	4200 x 2000 x 2300 mm	1500 x 1900 x 2000 mm
mtu 12V4000 GS	5000 x 2000 x 2300 mm	1500 x 1900 x 2000 mm
mtu 16V4000 GS	5500 x 2000 x 2300 mm	1500 x 1900 x 2000 mm
mtu 20V4000 GS	6600 x 2000 x 2300 mm	1500 x 1900 x 2000 mm

Engine data

4000	
Configuration	90° V
No. of cylinders	8/12/16/20
Bore/stroke	170/210 mm
Cyl. displacement	4,77 lit.

Design and equipment (extract)

- Sliding gear starter 24V
- Gas supply with electronically controlled gas metering valve
- Electronic high-voltage capacitor ignition system with one ignition coil per cylinder
- Electronic speed governor for speed and power output control with automatic knocking control

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