

GAS SYSTEM

SERIES 4000 NATURAL GAS

400V / 50 Hz
NOx < 500 mg/Nm³



SYSTEM RATINGS

Gas genset with optional heat recovery module

Genset Type	Engine Type	Output				Energy input ⁴⁾ kW	Efficiency		Methane number ⁵⁾
		Elect. ¹⁾	Therm. ²⁾	Exhaust ³⁾	Low Temp.		Electr.	Total	
		kW _{el.}	kW _{th.}	kW _{th.} (°C)	kW _{th.} (°C)		η _{el.} (%)	η _{tot.} (%)	
MTU 8V4000 GS	L33	776	401	422 (120)	47 (40)	1832	42,4	87,3	≥ 70
MTU 8V4000 GS	L33	854	443	448 (120)	49 (40)	1993	42,8	87,5	≥ 80
MTU 8V4000 GS	L64	1012	475	461 (120)	69 (43)	2298	44,0	84,8	≥ 80
MTU 12V4000 GS	L33	1286	664	659 (120)	88 (40)	2974	43,2	87,7	≥ 80
MTU 12V4000 GS	L64	1523	712	691 (120)	104 (43)	3438	44,3	85,1	≥ 80
MTU 16V4000 GS	L33	1718	974	821 (120)	113 (40)	3991	43,0	88,0	≥ 80
MTU 16V4000 GS	L64	1999	950	928 (120)	125 (43)	4511	44,3	85,9	≥ 80
MTU 16V4000 GS	L64	2028	965	936 (120)	127 (43)	4573	44,3	85,9	≥ 80
MTU 20V4000 GS	L33	2145	1161	1078 (120)	142 (40)	4990	43,0	87,9	≥ 80
MTU 20V4000 GS	L64	2535	1186	1212 (120)	176 (43)	5751	44,1	85,8	≥ 80

Hot ambient conditions

MTU 8V4000 GS	L32	776	446	420 (120)	32 (53)	1853	41,9	88,6	≥ 80
MTU 12V4000 GS	L32	1169	632	638 (120)	43 (53)	2747	42,5	88,8	≥ 80
MTU 16V4000 GS	L32	1560	863	805 (120)	76 (53)	3651	42,7	88,4	≥ 80
MTU 16V4000 GS	L64 FN ER	2028	1122	980 (120)	81 (58)	4672	43,4	88,4	≥ 80

Low methane number

MTU 16V4000 GS	L32 ER	1560	921	937 (120)	84 (53)	3848	40,5	88,8	≥ 60
MTU 20V4000 GS	L32 ER	1948	1143	1181 (120)	99 (53)	4812	40,5	88,8	≥ 60

1) Rated power at nominal voltage, power factor = 1,0 and nominal frequency

3) Heat output from exhaust (exhaust cooling to 120°C) with tolerance of ± 8%

5) Referenced methane number

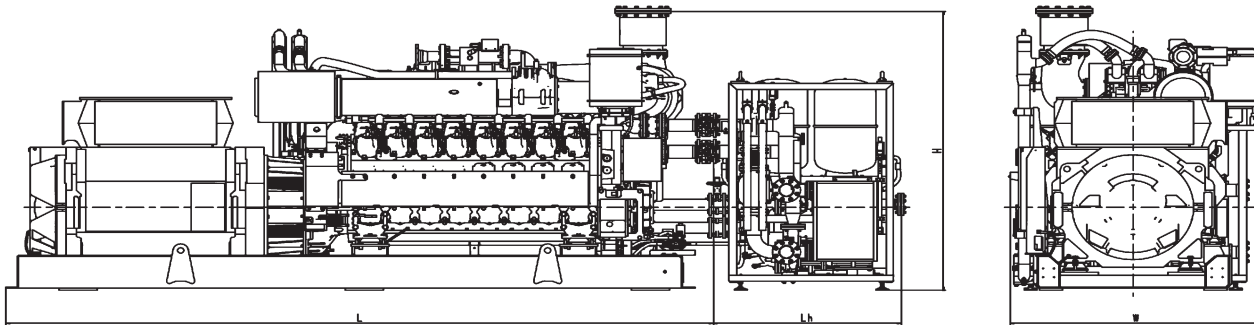
2) Heat output from engine cooling with tolerance of ± 8%

4) Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%

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 (L x W x H)	Heat recovery module (Lh x W x H)
MTU 8V4000 GS	4200 x 2000 x 2400 mm	1500 x 1900 x 2000 mm
MTU 12V4000 GS	5000 x 2000 x 2400 mm	1500 x 1900 x 2000 mm
MTU 16V4000 GS	5500 x 2000 x 2600 mm	1500 x 1900 x 2000 mm
MTU 20V4000 GS	6000 x 2000 x 2600 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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