

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 20V4000 GS	L32	1948	1035	1101 (120)	78 (53)	4577	42.6	89.2	≥ 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

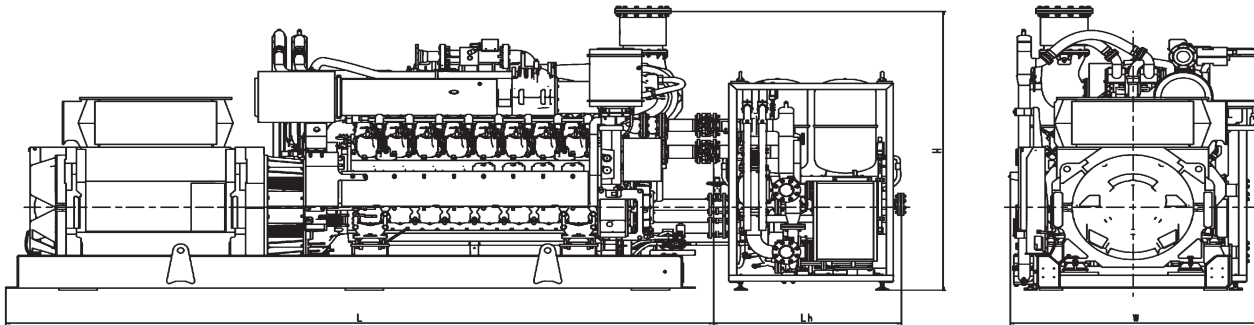
2) Heat output from engine cooling with tolerance of ± 8%

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

MTU 8V4000 GS
 MTU 12V4000 GS
 MTU 16V4000 GS
 MTU 20V4000 GS

Dimensions Genset (L x W x H)

4200 x 2000 x 2400 mm
 5000 x 2000 x 2400 mm
 5500 x 2000 x 2600 mm
 6000 x 2000 x 2600 mm

Heat recovery module (Lh x W x H)

1500 x 1900 x 2000 mm
 1500 x 1900 x 2000 mm
 1500 x 1900 x 2000 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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