

# GAS SYSTEM SERIES 4000 NATURAL GAS

400V / 50 Hz  
NOx < 500 mg/Nm<sup>3</sup>



## SYSTEM RATINGS

### Gas genset with optional heat recovery

Genset Type	Engine Type	Output				Energy input <sup>4)</sup> kW	Efficiency		Methane number <sup>5)</sup>
		Elect. <sup>1)</sup>	Therm. <sup>2)</sup>	Exhaust <sup>3)</sup>	Low Temp.		Electr.	Total	
		kW <sub>el.</sub>	kW <sub>th.</sub>	kW <sub>th.</sub> (°C)	kW <sub>th.</sub> (°C)		η <sub>el.</sub> (%)	η <sub>tot.</sub> (%)	
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	1199	616	636 (120)	82 (40)	2795	42.9	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	952	930 (120)	125 (43)	4519	44.2	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	2530	1200	1147 (120)	175 (43)	5748	44.1	84.8	≥ 80

### hot ambient conditions

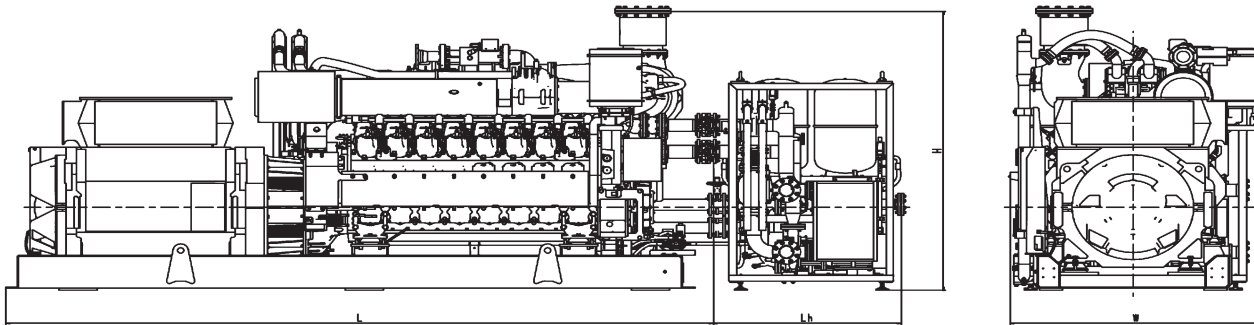
Genset Type	Engine Type	Output				Energy input <sup>4)</sup> kW	Efficiency		Methane number <sup>5)</sup>
		Elect. <sup>1)</sup>	Therm. <sup>2)</sup>	Exhaust <sup>3)</sup>	Low Temp.		Electr.	Total	
		kW <sub>el.</sub>	kW <sub>th.</sub>	kW <sub>th.</sub> (°C)	kW <sub>th.</sub> (°C)		η <sub>el.</sub> (%)	η <sub>tot.</sub> (%)	
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

- 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

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

Any specifications, descriptions, values, data or other information related to dimensions, power or other technical performance criteria of the goods as provided in this general product information are to be understood as non-binding and may be subject to further changes such as but not limited to technical evolution at any time. Version: 01.08.2014, materials and specifications subject to change without notice due to technical advances.

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