



## Gas system

# SERIES 4000 BIOGAS

480V/60 Hz/NO<sub>x</sub> < 1g/bhp-hr

## System ratings

### Gas genset

Genset type	Engine type	Output				Energy input <sup>4)</sup>	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>	kBTU/hr	kBTU/hr (°F)	kBTU/hr (°F)	kBTU/hr	n <sub>el</sub> (%)	n <sub>tot</sub> (%)	
<b>mtu</b> 8V4000 GS	L32	762	1472	1206 (356)	236 (127)	6410	40.6	82.4	≥ 120
<b>mtu</b> 12V4000 GS	L32	1151	2172	1786 (356)	314 (127)	9518	41.3	82.9	≥ 120
<b>mtu</b> 16V4000 GS*	L32	1542	2251	2261 (356)	1127 (-)	12629	41.7	77.4	≥ 120
<b>mtu</b> 20V4000 GS*	L32	1932	2544	3002 (356)	1274 (-)	15488	42.6	78.4	≥ 120
<b>mtu</b> 12V4000 GS	L64FB	2106	5760	2483 (248)	239 (147)	11824	43.4	92.1	130

- 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 248°F or 356°F) with tolerance of ± 8%
- 4 Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%
- 5 Referenced methane number

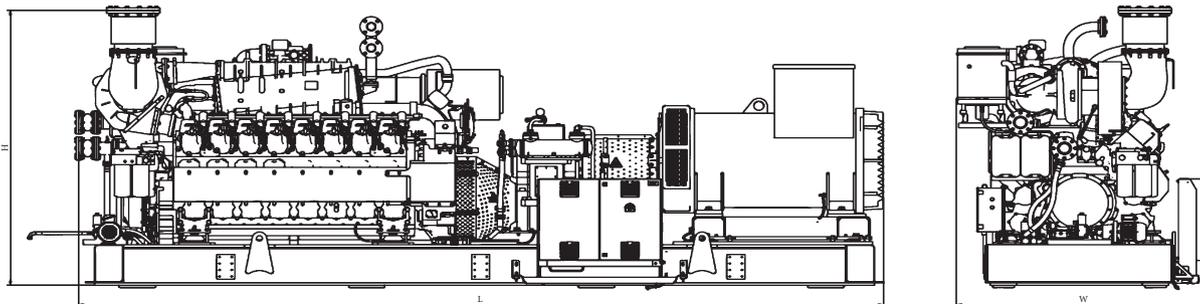
- Project specific data on request:
- different alternator voltage
  - different flow-/return-temperatures, hot cooling, methane number, installation conditions etc.
  - Container

\* with HT-mixture extraction



A Rolls-Royce solution

## Drawings and dimensions



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

Genset type	Dimensions genset (LxWxH) mm (in)
<i>mtu</i> 8V4000 GS	5000 x 2000 x 2500 (200 x 80 x 100)
<i>mtu</i> 12V4000 GS	5850 x 2000 x 2500 (240 x 80 x 100)
<i>mtu</i> 16V4000 GS	6800 x 2000 x 2600 (260 x 80 x 100)
<i>mtu</i> 20V4000 GS	7250 x 2000 x 2600 (280 x 80 x 100)

## Engine data

4000		
Configuration		90° V
No. of cylinders		8/12/16/20
Bore/stroke	mm (in)	170/210 (6,7/8,3)
Cyl. displacement	lit. (in <sup>3</sup> )	4,77 (34,45)
Rated speed	rpm	1500

## Design and equipment (extract)

- Sliding gear starter 24V
- Gas supply with electronically controlled gas metering valve
- Gearbox 1500 – 1800 rpm
- 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.