



## Gas system

# SERIES 4000 NATURAL GAS

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	L33	762	1421	1458 (248)	164 (104)	6349	41.0	86.3	≥ 70
<b>mtu</b> 8V4000 GS	L33	840	1561	1540 (248)	167 (104)	6865	41.8	87.0	≥ 80
<b>mtu</b> 12V4000 GS	L33	1151	2121	2162 (248)	277 (104)	9470	41.5	86.7	≥ 70
<b>mtu</b> 12V4000 GS	L33	1268	2326	2261 (248)	304 (104)	10235	42.3	87.1	≥ 80
<b>mtu</b> 16V4000 GS	L33	1542	3104	2678 (248)	345 (104)	12629	41.7	87.5	≥ 70
<b>mtu</b> 16V4000 GS	L33	1697	3391	2818 (248)	393 (104)	13743	42.2	87.4	≥ 80
<b>mtu</b> 20V4000 GS	L33	1924	3678	3564 (248)	434 (104)	15785	41.6	87.1	≥ 70
<b>mtu</b> 20V4000 GS	L33	2120	4030	3695 (248)	492 (104)	17151	42.2	87.3	≥ 80
<b>Hot ambient conditions</b>									
<b>mtu</b> 8V4000 GS	L32	762	1564	1445 (248)	103 (127)	6380	40.8	88.0	≥ 80
<b>mtu</b> 12V4000 GS	L32	1151	2336	2336 (248)	167 (127)	9805	40.1	87.7	≥ 80
<b>mtu</b> 16V4000 GS	L32	1542	3009	2766 (248)	263 (127)	12568	41.9	87.9	≥ 80
<b>mtu</b> 20V4000 GS	L32	1924	3600	3784 (248)	270 (127)	15747	41.7	88.6	≥ 80
<b>mtu</b> 16V4000 GS	L64FNER	2014	4091	3415 (248)	345 (136)	16038	42.9	89.7	≥ 80
<b>mtu</b> 20V4000 GS	L64FNER	2516	5007	4276 (248)	526 (136)	19895	43.3	90.1	≥ 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 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

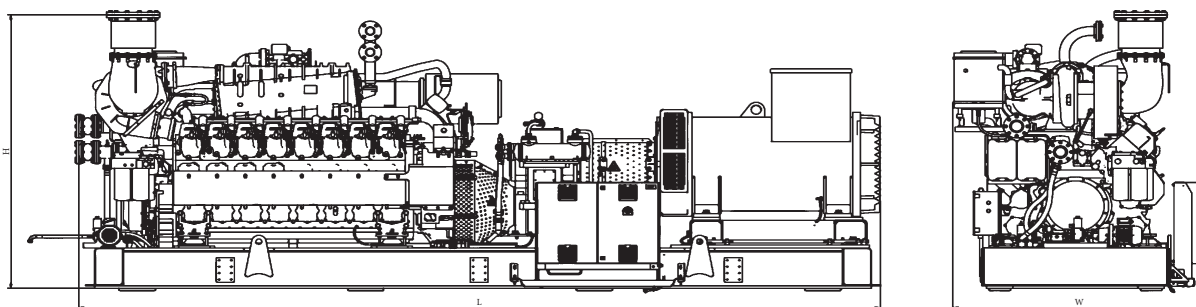
Project specific data on request:

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



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)
<b>mtu</b> 8V4000 GS	203 x 80 x 100 in
<b>mtu</b> 12V4000 GS	230 x 80 x 100 in
<b>mtu</b> 16V4000 GS	268 x 80 x 102 in
<b>mtu</b> 20V4000 GS	285 x 80 x 102 in

## Engine data

	<b>4000</b>
Configuration	90° V
No. of cylinders	8/12/16/20
Bore/stroke	170/210 mm (6.69/8.27 in)
Cyl. displacement	4.77 lit. (291 cu in)
Rated speed	1500 rpm

## 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

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