



Gas system

SERIES 4000 NATURAL GAS

480V/60 Hz/NO_x < 500 mg/Nm³

System ratings

Gas genset

Genset type	Engine type	Output				Energy input ⁴⁾	Efficiency		Methane number ⁵⁾
		Elect. ¹⁾	Therm. ²⁾	Exhaust ³⁾	Low Temp.		Electr.	Total	
		kW _{el}	kW _{th}	kW _{th} (°C)	kW _{th} (°C)	kW	n _{el} (%)	n _{tot} (%)	
mtu 8V4000 GS	L33	764	409	422 (120)	47 (40)	1832	41.7	87.1	≥ 70
mtu 8V4000 GS	L33	841	452	448 (120)	49 (40)	1993	42.2	87.4	≥ 80
mtu 12V4000 GS	L33	1152	610	628 (120)	80 (40)	2731	42.2	87.5	≥ 70
mtu 12V4000 GS	L33	1272	675	659 (120)	88 (40)	2974	42.8	87.6	≥ 80
mtu 16V4000 GS	L33	1549	896	777 (120)	93 (40)	3649	42.4	88.3	≥ 70
mtu 16V4000 GS	L33	1705	974	821 (120)	113 (40)	3991	42.7	87.7	≥ 80
mtu 20V4000 GS	L33	1924	1061	1017 (120)	125 (40)	4560	42.2	87.8	≥ 70
mtu 16V4000 GS	L64FNER	2014	1072	995 (120)	145 (40)	4583	43.9	89.0	≥ 72
mtu 20V4000 GS	L33	2120	1170	1077 (120)	142 (40)	4985	42.5	87.6	≥ 80

Hot ambient conditions

mtu 8V4000 GS	L32	764	454	420 (120)	82 (53)	1853	41.2	88.4	≥ 80
mtu 12V4000 GS	L32	1152	642	638 (120)	43 (53)	2747	41.9	88.5	≥ 80
mtu 16V4000 GS	L32	1549	901	805 (120)	76 (53)	3651	42.4	89.2	≥ 80
mtu 20V4000 GS	L32	1932	1046	1101 (120)	78 (53)	4577	42.2	89.1	≥ 80
mtu 16V4000 GS	L64FNER	2014	1185	974 (120)	93 (58)	4622	43.6	90.3	≥ 80
mtu 20V4000 GS	L64FNER	2516	1454	1243 (120)	150 (58)	5781	43.5	90.2	≥ 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

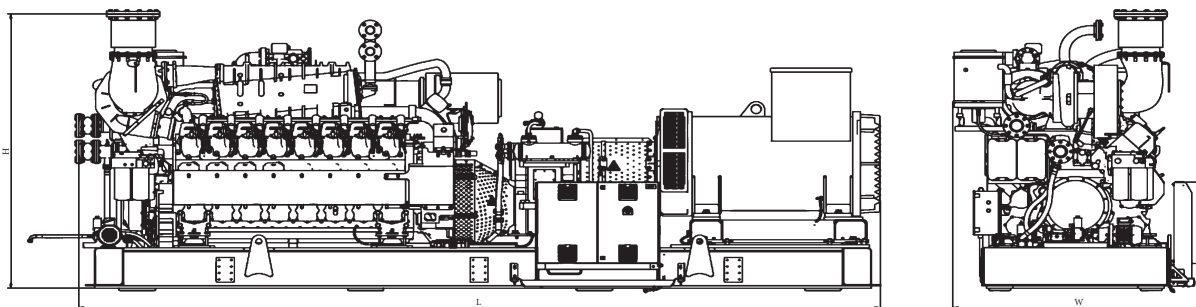
Project specific data on request:

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



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)
mtu 8V4000 GS	5000 x 2000 x 2500 mm
mtu 12V4000 GS	5850 x 2000 x 2500 mm
mtu 16V4000 GS	6800 x 2000 x 2600 mm
mtu 20V4000 GS	7250 x 2000 x 2600 mm

Engine data

	4000
Configuration	90° V
No. of cylinders	8/12/16/20
Bore/stroke	170/210 mm
Cyl. displacement	4.77 lit.
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

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.