



Gas system

SERIES 4000 NATURAL GAS

480V/60 Hz/NO_x < 1g/bhp-hr

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

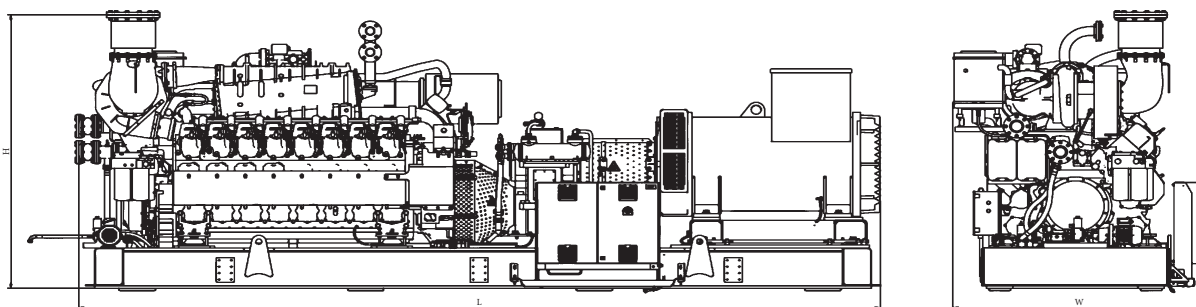
- 1 Rated power at nominal voltage, power factor = 1,0 and nominal frequency
- 2 Heat output from engine cooling with tolerance of ± 8%
- 3 Heat output from exhaust (exhaust cooling to 248°F or 356°F) with tolerance of ± 8%
- 4 Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%
- 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)
mtu 8V4000 GS	203 x 80 x 100 in
mtu 12V4000 GS	230 x 80 x 100 in
mtu 16V4000 GS	268 x 80 x 102 in
mtu 20V4000 GS	285 x 80 x 102 in

Engine data

	4000
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

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. Materials and specifications subject to change without notice due to technical advances.