



Gas system

SERIES 400 BIOGAS

480V / 60 Hz / NOx < 500 mg/Nm³

System ratings

Gas genset with optional heat recovery (90°/70°C heating water circuit)

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 6R400 GS	B3066 Z8	200	127	126 (180)	13 (50)	558	35.8	81.7	≥ 120
MTU 12V400 GS	B3042 Z7	349	212	282 (180)	- - -	951	36.7	88.6	≥ 120
MTU 12V400 GS	B3042 Z7	421	262	263 (180)	22 (50)	1123	37.5	84.2	≥ 120

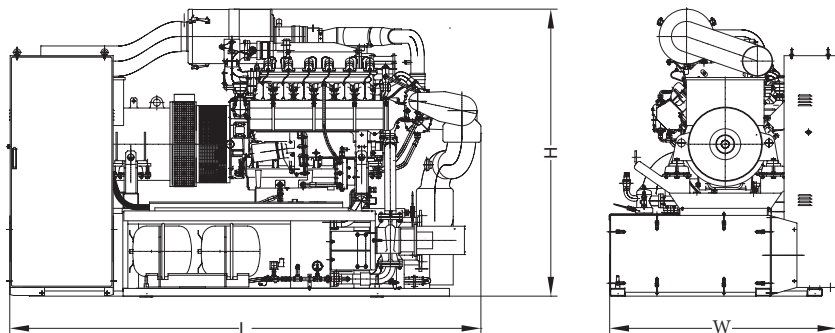
- 1 Rated power at nominal voltage, power factor = 1,0 and nominal frequency
- 2 Heat output from engine cooling with tolerance of ± 8%
- 3 Heat output from exhaust (exhaust cooling to 180°C) with tolerance of ± 8%
- 4 Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%
- 5 Referenced 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 (L x W x H)	Cogeneration module (L x W x H)
MTU 6R400 GS (Z8)	3370 x 1750 x 2100 mm	3680 x 1870 x 2140 mm
MTU 12V400 GS (Z7)	3940 x 1690 x 2130 mm	3820 x 1840 x 2260 mm

Engine data

	3066	3042
Configuration	in-line	90°V
No. of cylinders	6	12
Bore/stroke	130/155 mm	130/142 mm
Cyl. displacement	2.06 lit.	1.88 lit.
Rated speed	1800 rpm	1800 rpm

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.