



SERIES 500 NATURAL GAS 400V/50 Hz/NOx < 500 mg/Nm³

System ratings

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

Genset type	Engine type	Output			ust ³⁾ Low Temp.	Energy input ⁴⁾	Efficiency		Methane
Genset type		Elect. ¹⁾	Therm. ²⁾	Exhaust 3)			Electr.	Total	number ⁵⁾
		kW _{el.}	kW _{th.}	kW _{th} (°C)	kW _{th} (°C)	kW	n _{eL} (%)	n _{tot} (%)	
MTU 6R500 GS	6R500	250	131	129 (120)	26 (38)	598	41.8	85.2	≥ 80
MTU 8V500 GS	8V500	360	188	193 (120)	31 (38)	846	42.6	87.6	≥ 80
MTU 12V500 GS	12V500	550	287	290 (120)	51 (38)	1290	42.6	87.4	≥ 80

1 Rated power at nominal voltage, power factor = 1,0 and nominal frequency

Heat output from engine cooling with tolerance of ± 8%
Heat output from exhaust (exhaust cooling to 120°C) with tolerance of ± 8%

Project specific data on request: — different alternator voltage

- different flow-/return-temperatures, hot cooling, methane number,

4 Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%

5 Natural gas referenced methane number

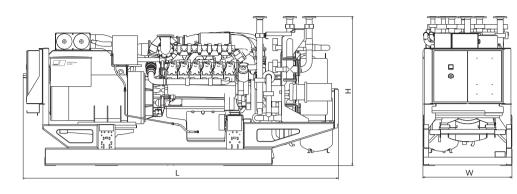
installation conditions etc.

Sound enclosures





Drawings and dimensions



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

Genset type	GB - version (LxWxH) mm	GR - version (L x W x H) mm	Cogeneration module GC (LxWxH) mm
MTU 6R500 GS	3400 x 1200 x 2100	4700 x 1400 x 2200	4700 x 1400 x 2200
MTU 8V500 GS	3400 x 1400 x 2400	4900 x 1600 x 2400	4900 x 1600 x 2400
MTU 12V500 GS	3900 x 1400 x 2100	5100 x 1400 x 2300	5100 x 1400 x 2300

Engine data

	6R500	8V500	12V500
Configuration	in-line	V	V
No. of cylinders	6	8	12
Bore/stroke	130/150 mm	130/157 mm	130/157 mm
Cyl. displacement	11.9 lit.	16.7 lit.	25.0 lit.
Rated speed	1500 rpm	1500 rpm	1500 rpm

Design and equipment (extract)

- Electric starter 24V
- Gas supply with electronically controlled gas metering valve with annular gap
- Electronic high-voltage capacitor ignition system with one ignition coil per cylinder, microprocessor-controlled
- High-turbulence combustion concept for highest dynamics and efficiency
- Advanced MMC-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.

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