

GAS SYSTEM

SERIES 400 NATURAL GAS

400V / 50 Hz
NO_x < 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⁾ kW	Efficiency		Methane number ⁵⁾
		Elect. ¹⁾	Therm. ²⁾	Exhaust ³⁾	Low Temp.		Electr.	Total	
		kW _{el.}	kW _{th.}	kW _{th.} (°C)	kW _{th.} (°C)		η _{el.} (%)	η _{tot.} (%)	
MTU 6R400 GS*	E3066 D3*	119	116	82 (110)	---	345	34.4	91.8	≥ 70
MTU 6R400 GS	E3066 L9	182	123	143 (120)	---	507	35.9	88.3	≥ 70
MTU 6R400 GS	E3066 L9	191	103	149 (120)	30 (50)	534	35.8	83.0	≥ 70
MTU 6R400 GS	E3066 L9	201	106	154 (120)	36 (40)	560	35.9	82.3	≥ 70
MTU 6R400 GS	E3066 Z5	210	121	132 (120)	16 (40)	541	38.8	85.6	≥ 70
MTU 12V400 GS*	E3042 D3*	240	220	151 (100)	---	665	36.1	91.9	≥ 80
MTU 12V400 GS	E3042 L9	357	198	256 (120)	---	951	37.5	85.3	≥ 70
MTU 12V400 GS	E3042 L9	370	194	264 (120)	51 (50)	988	37.5	83.8	≥ 70
MTU 12V400 GS	E3042 L9	387	199	274 (120)	63 (40)	1029	37.6	83.5	≥ 70
MTU 12V400 GS	E3042 Z6	420	247	257 (120)	31 (40)	1064	39.5	86.8	≥ 80

Cogeneration Module 100°/80°C heating water circuit

Genset Type	Engine Type	Output				Energy input ⁴⁾ kW	Efficiency		Methane number ⁵⁾
		Elect. ¹⁾	Therm. ²⁾	Exhaust ³⁾	Low Temp.		Electr.	Total	
		kW _{el.}	kW _{th.}	kW _{th.} (°C)	kW _{th.} (°C)		η _{el.} (%)	η _{tot.} (%)	
MTU 6R400 GS*	E3066 DH3*	116	110	81 (120)	---	337	34.5	91.2	≥ 70
MTU 6R400 GS	E3066 LH9	165	111	130 (120)	---	465	35.6	87.3	≥ 70
MTU 12V400 GS*	E3042 DH3*	227	198	143 (120)	---	628	36.2	90.6	≥ 80
MTU 12V400 GS	E3042 LH9	323	206	249 (120)	---	879	36.8	88.5	≥ 70

* λ = 1 with 3-Way-Catalyst, NO_x < 250 mg/Nm³

- 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 100°C or 110°C or 120°C) with tolerance of ± 8%
- 4) Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%
- 5) Referenced methane number

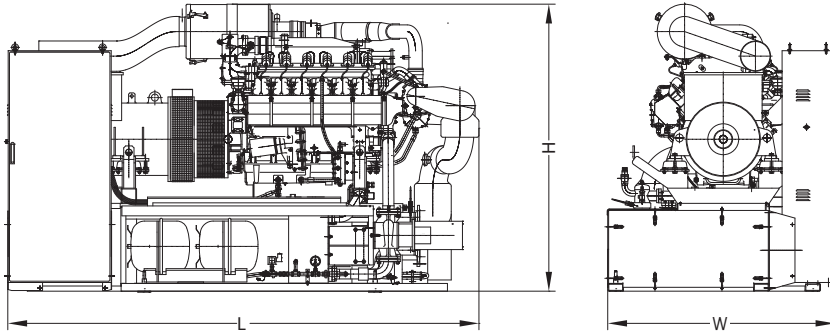
Project specific data on request:

- different alternator voltage

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

- Container

DRAWINGS AND DIMENSIONS



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

Genset Type

MTU 6R400 GS (D3)
 MTU 6R400 GS (L9)
 MTU 6R400 GS (Z5)
 MTU 12V400 GS (D3/L9)
 MTU 12V400 GS (Z6)
 MTU 6R400 GS (DH3)
 MTU 6R400 GS (LH9)
 MTU 12V400 GS (DH3/LH9/ZH6)

Dimensions Genset (L x W x H)

 3400 x 1700 x 2100 mm
 3900 x 1900 x 2150 mm
 4000 x 1700 x 2200 mm
 4000 x 1700 x 2200 mm

Cogeneration module (L x W x H)

3650 x 960 x 1875 mm
 3700 x 1900 x 2100 mm
 3900 x 1900 x 2150 mm
 3700 x 1900 x 2300 mm
 3900 x 1900 x 2300 mm
 3950 x 960 x 1875 mm
 3900 x 1900 x 2100 mm
 4000 x 1900 x 2300 mm

ENGINE DATA

3066

Configuration	in-line
No. of cylinders	6
Bore/Stroke	130/155 mm
Cyl. displacement	2.06 lit.
Rated speed	1500 rpm

3042

Configuration	90°V
No. of cylinders	12
Bore/Stroke	130/142 mm
Cyl. displacement	1.88 lit.
Rated speed	1500 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

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MTU Onsite Energy

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