



Gas system

SERIES 400 NATURAL GAS

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

System ratings

Gas genset with optional heat recovery (194°/158°F 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} | kBTU/hr | kBTU/hr (°F) | kBTU/hr (°F) | kBTU/hr | η _{el} (%) | η _{tot} (%) | |
| MTU 6R400 GS* | E3066 D3* | 128 | 409 | 331 (230) | - - - | 1283 | 34.0 | 91.8 | ≥ 70 |
| MTU 12V400 GS* | E3042 D3* | 248 | 867 | 577 (248) | - - - | 2494 | 33.9 | 91.8 | ≥ 70 |
| MTU 12V400 GS (Z6) | E3042 Z6 | 358 | 878 | 915 (248) | - - - | 3350 | 36.5 | 90.0 | ≥ 70 |
| MTU 12V400 GS (Z6) | E3042 Z6 | 420 | 870 | 1044 (248) | 102 (104) | 3787 | 37.8 | 88.4 | ≥ 80 |

* λ = 1 with 3-Way-Catalyst, NO_x < 0.5 g/bhp-hr

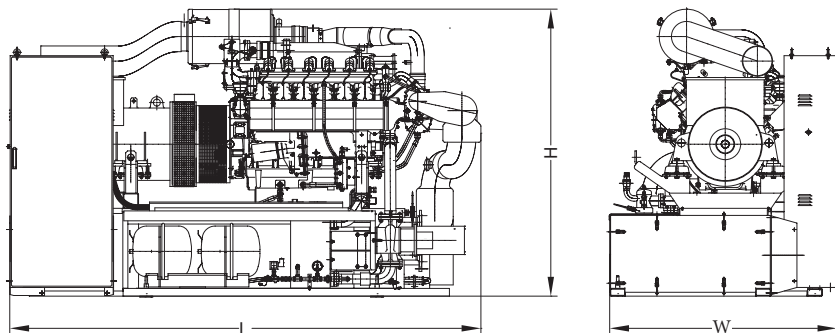
- 1 Rated power at nominal voltage, power factor = 1,0 and nominal frequency
- 2 Heat output from engine cooling with tolerance of ± 8%
- 3 Heat output from exhaust (exhaust cooling to 230°F or 248°F) with tolerance of ± 8%
- 4 Performance data in accordance with ISO 3046/I-2002 with tolerance of 5%
- 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 (L x W x H) | Cogeneration module (L x W x H) |
|--------------------|-------------------------------|---------------------------------|
| MTU 6R400 GS (D3) | --- | 144 x 38 x 74 in |
| MTU 12V400 GS (D3) | --- | 145 x 72 x 87 in |
| MTU 12V400 GS | 155 x 67 x 84 in | 150 x 72 x 89 in |

Engine data

| | 3066 | 3042 |
|-------------------|---------------------------|---------------------------|
| Configuration | in-line | 90°V |
| No. of cylinders | 6 | 12 |
| Bore/stroke | 130/155 mm (5.12/6.10 in) | 130/142 mm (5.12/5.59 in) |
| Cyl. displacement | 2.06 lit. (126 cu in) | 1.88 lit. (115 cu in) |
| 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.