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## NATURAL GAS COGENERATING UNIT WITH SPARK IGNITION ENGINE

## MARTIN POWER LIEBHERR

### Cogenerating unit model

Electric power @ cos phi 0.8
<b>Electric power @ cos phi 1.0</b>
<b>Power from fuel</b>
Thermal power from engine cooling
HT-stage intercooler thermal power
LT-stage intercooler thermal power <sup>1)</sup>
Thermal power from suction air cooling
Thermal power from exhaust <sup>2)</sup>
<b>Thermal power on the output</b>
<b>Electric power efficiency</b>
Thermal power efficiency
<b>Total efficiency</b>
Current
Control panel current
Speed

### MP 300 L - CU

288 kVA / 231 kW
<b>236 kW</b>
<b>590 kW</b>
89 kW
30 kW
20 kW
50 kW
143 kW
<b>282 kW</b>
<b>40,0%</b>
47,8%
<b>87,8%</b>
416 A
630 A
1500 min <sup>-1</sup>

### Engine model

Nominal power
Intake
Speed governor
Cylinders
Bore
Stroke
Displacement
Compression ratio
Ignition sequence
Ignition timing
Lambda
Max. mixture temperature
Max. intake temperature
Air mass flow
Exhaust gas flow
Max. back pressure at exhaust
Max. exhaust temperature (@ rated power)
Radiated heat (incl. exhaust under 120°C)
Specific gas consumption
Gas consumption @ 100% load
Gas consumption @ 80% load
Gas consumption @ 60% load
Engine oil volume (min/max)
Engine oil consumption
Coolant volume (engine only)
Coolant pressure (min/max)
Minimal coolant flow through engine
Coolant temperature (@ engine outlet) (min/max)
Max. temperature difference over engine
HT stage intercooler inlet temperature
HT stage intercooler coolant flow
LT stage intercooler inlet temperature
LT stage intercooler coolant flow
Battery voltage
Starter
Battery

### G 946

246 kW
turbocharged with intercooler
electronic
6R
130 mm
150 mm
12 dm <sup>3</sup>
13:1
1-5-3-6-2-4
23 °BTDC
1,74
45 °C
35 °C
1266 kg/h
1311 kg/h
10 kPa (6 kPa)
452 °C
75 kW
190,5 g/kWh
44 kg/h
36 kg/h
28 kg/h
32/40 l
0,05 kg/h
20 l
1/2,5 bar
297 l/min
80/88 °C
5 °C
80 °C
7,7 m <sup>3</sup> /h
35 °C
6,5 m <sup>3</sup> /h
24 V
7,8 kW
2 x 110 Ah



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### Cogenerating unit model

<b>Generator manufacturer</b>
<b>Generator model</b>
Nominal power
F class power
Engine - generator connection
Voltage regulation
Voltage precision

### Emissions

NO <sub>x</sub>
CO
HC

### Canopy (genset only)

Length
Width
Height
Weight

### Open CHP version

Length
Width
Height
Weight

### Canopied CHP version

Length
Width
Height
Weight

### Container CHP version

Length
Width
Height
Weight

### Installation - connections

Gas inlet
Heating HT circuit
Heating LT circuit (optional)
Exhaust (pipe up to 6 m)

### MP 300 L - CU

<b>MECC ALTE</b>
<b>ECO 38 - 3LN/4</b>
350 kVA / 280 kW
320 kVA
SAE 1
electronic
1,5 %

### @ 5% O<sub>2</sub>

500 mg/Nm <sup>3</sup>
650 mg/Nm <sup>3</sup> (with Oxi-Cat)
2000 mg/Nm <sup>3</sup>

### HR 11

4425 mm
1635 mm
2226 mm
4300 kg

4500 mm
1300 mm
2600 mm

4500 mm
1550 mm
2800 mm

20'
6058 mm
2438 mm
2591 mm

Rp 6/4"
DN 65
DN 150

- 1) The thermal power is available if the cooling water temperature input is below 35°C
- 2) Theoretical usable thermal power only