



**NATURAL GAS COGENERATING UNIT
 WITH SPARK IGNITION ENGINE**

**MARTIN POWER
 MTU**

Cogenerating unit model

Electric power @ cos phi 0.8
Electric power @ cos phi 1.0
Energy input in fuel ³⁾
Gas consumption (min/max) @ 9,6 kWh/m ³
Thermal power from engine cooling
HT-stage intercooler thermal power
Lube oil cooling thermal power
LT-stage intercooler thermal power ¹⁾
Thermal power from exhaust
Thermal power on the output ²⁾
Electric power efficiency
Thermal power efficiency
Total efficiency
Current
Control panel current
Speed

MP 2100 M - CU

2104 kVA / 1683 kW
1718 kW
3991 kW
223/416 m ³ /h
974 kW
included in engine cooling
included in engine cooling
113 kW
821 kW
1908 kW
43,0%
47,8%
90,8%
3101 A
3200 A
1500 min ⁻¹

Engine model

Nominal power
Intake
Speed governor
Cylinders
Bore
Stroke
Displacement
Compression ratio
Ignition sequence
Ignition timing
Lambda
Intake air temperature
Combustion air temperature (min/max)
Air mass flow
Exhaust gas flow
Max. back pressure at exhaust
Max. exhaust temperature (@ rated power)
Radiated heat
Specific gas consumption
Gas consumption (CH ₄) @ 100% load
Gas consumption (CH ₄) @ 75% load
Gas consumption (CH ₄) @ 50% load
Engine oil volume
Engine oil consumption
Coolant volume (CHP)
Coolant pressure (max)
Minimal coolant flow through engine
Coolant temperature - engine (in/out)
Coolant temperature - CHP (in/out)
Heating water temperature (in/out)
Heating water flow rate
LT stage intercooler temperature (in/out)
LT stage intercooler coolant flow
Battery voltage
Starter
Battery

16V 4000 L33

1760 kW
turbocharged with intercooler
electronic
16V
170 mm
210 mm
76,3 dm ³
12,8:1
on request
fixed
lean burn
25 °C
20/30 °C
8649 kg/h
8940 kg/h
6 kPa
426 °C
88 kW
174 g/kWh
296 kg/h
227 kg/h
159 kg/h
285 l
0,6 l/h
292 l (engine only)
6 bar
77 m ³ /h
78/90 °C
78/102 °C
70/90 °C
90,5 m ³ /h
40/44 °C
27 m ³ /h
24 V
9 kW
4 x 170 Ah

NATURAL GAS COGENERATING UNIT WITH SPARK IGNITION ENGINE

MARTIN POWER MTU

Cogenerating unit model

Generator manufacturer

Generator model

Nominal power

F class power

Protection

Voltage regulation

Voltage precision

Emissions ⁴⁾

NO_x

CO

HCHO

Open genset

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 2100 M - CU

LEROY SOMER

LSA 51.2 VL95

2500 kVA

2280 kVA

IP 23

electronic

1,5 %

@ 5% O₂

500 mg/Nm³

300 mg/Nm³ (with OxiCat)

60 mg/Nm³

5500 mm

2000 mm

2600 mm

13200 kg

7000 mm

2000 mm

2600 mm

14450 kg

13000 mm

3100 mm

3100 mm

45'

13716 mm

3100 mm

3100 mm

DN 80 / PN 16

DN 100 / PN 16

DN 50 / PN 16

DN 400 / PN 6

1) The thermal power is available if the cooling water temperature input is below 35°C

2) Theoretical usable thermal power; tolerance +/- 8 %

3) According to ISO 3046 (+ 5 % tolerance), using reference fuel used at 400 V, p.f. 1.0, 50 Hz

4) Emission values during grid parallel operation