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BIOGAS COGENERATING UNIT WITH SPARK IGNITION ENGINE

MARTIN POWER LIEBHERR

Cogenerating unit model

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

MP 600 L - BCU

615 kVA / 492 kW
497 kW
1239 kW
185 kW
62 kW
41 kW
103 kW
300 kW
588 kW
40,1%
47,5%
87,6%
887 A
1000 A
1500 min ⁻¹

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 9512

516 kW
turbocharged with intercooler
electronic
12V
130 mm
157 mm
25 dm ³
13:1
1-12-2-11-3-10-6-7-5-8-4-9
26 °BTDC
1,55
45 °C
35 °C
2403 kg/h
2656 kg/h
10 kPa (6 kPa)
475 °C
156 kW
514,2 g/kWh
253 kg/h
214 kg/h
164 kg/h
72/90 l
0,1 kg/h
65 l
2,5 bar
594 l/min
80/88 °C
6 °C
80 °C
10 m ³ /h
35 °C
6,5 m ³ /h
24 V
7,8 kW
2 x 110 Ah



**BIOGAS COGENERATING UNIT
 WITH SPARK IGNITION ENGINE**

**MARTIN POWER
 LIEBHERR**

Cogenerating unit model

Generator manufacturer
Generator model
Nominal power
F class power
Engine - generator connection
Voltage regulation
Voltage precision

Emissions
NO _x
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 600 L - BCU

MARELLI
MJB 355 MB4
800 kVA / 640 kW
730 kVA
SAE 1
electronic
1,5 %

@ 5% O ₂
500 mg/Nm ³
650 mg/Nm ³ (with Oxi-Cat)
2000 mg/Nm ³

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