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Type  
AGS2250M

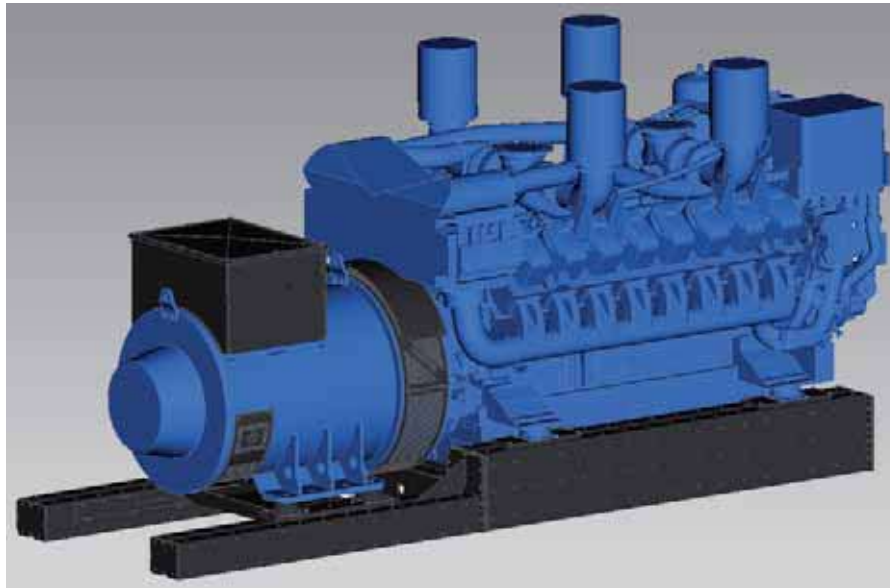
DIESEL GENERATOR SET  
Fuel Consumption Optimized  
2 150/2 365 kVA

Machine Set

# Diesel Generator Set

## Type AGS2250M

### 2 150/2 365 kVA



example drawing

Torsion-free base frame made of laser-cut, welded tilted steel profiles; machine group is mounted on base frame with rubber feet which allow the machine group to vibrate; however, there is no transfer of vibration to frame; eyelets for crane hooks included in base frame; engine and alternator are connected with steel flange coupling;

#### Genset Data

Gross output - Prime power (PRP)	2 150 kVA
Gross output - Emergency power (LTP)	2 365 kVA
Power factor (cos phi)	0.8
Nominal voltage	400 V / 230 V
Nominal current	3 103 A
Frequency	50 Hz
Speed	1 500 min
Load acceptance	approx. 50 %

#### Fuel System<sup>4</sup>

Fuel consumption at		
	100 % load	413.4 l/h
	75 % load	314.9 l/h
	50 % load	220.7 l/h
	25 % load	124.9 l/h
Specific fuel consumption at		
	100 % load	192 g/kWh
	75 % load	195 g/kWh
	50 % load	205 g/kWh
	25 % load	232 g/kWh
Fuel tank capacity (Open Set)		-
Fuel tank capacity (Sound Proof)		-
Autonomy at full load (Open Set)		-
Autonomy at full load (Sound Proof)		-

#### Dimensions and Weights

Open Set	
Length	4 800 mm
Width	1 670 mm
Height	2 400 mm
Weight	14 500 kg
Sound Proof	
Length	12 200 mm
Width	2 440 mm
Height	2 590 mm
Weight	6 500 kg

#### Noise Emission<sup>5</sup>

Sound power <sub>WA</sub> (Container)	110 dB(A)
Sound pressure <sub>PA</sub> @ 7m (Container)	-

## Engine Data

Manufacturer	MTU
Type	16V 4000
Configuration	4 cycle; V; 16 cylinder Diesel
Aspiration	turbo charged with charge air cooler
Displacement	76.3 l
Gross output - Prime power (PRP)	1 798.0 kW
Gross output - Emergency power (LTP)	1 978.0 kW
Compression ratio	16.5:1
Governor type	electronic
Oil capacity (sump)	240 l
Oil consumption	< 1.0 % of fuel consumption
Starting voltage	24 V
Exhaust emission standard	TA Luft 4000 (Edition 1986)

## Combustion Air

Combustion air volume	7 560 m <sup>3</sup> /h
Air cleaner type	dry; replaceable element with safety cartridge

## Exhaust System

Max. exhaust gas temperature	480 °C
Max. exhaust back pressure	85 mbar
Exhaust gas flow	19 440 m <sup>3</sup> /h

## Heat Rejection

Heat rejection to coolant	710.0 kW
Heat rejection to charge air cooler	260.0 kW
Heat rejection to engine radiation and convection	90.0 kW
Heat rejection to alternator radiation and convection	76.9 kW

### Legend:

<sup>1</sup>PRP (Prime Power) is available at a variable load for unlimited hours. Adjustable permanent output 100 %, no time restrictions. Prime Power is in accordance with ISO 8528. A 10 % overload capacity is available for limited time in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514. The power consumption of the cooling system is not deducted.

<sup>2</sup>LTP (Limited Time Power) is applicable for supplying power to a constant electrical load for limited hours in the event of a main power network failure. No overload is permitted. LTP is in accordance with ISO 8528. The power consumption of the cooling system is not deducted.

<sup>3</sup>max. additional output in kVA (PRP).

<sup>4</sup>Fuel consumption according to MTU datasheet.

<sup>5</sup>at 75 % load, according to EU directive 2000/14/EG

## Alternator Data

Manufacturer	Aggretech
Type	ACG2250-4-400
Mechanical protection (IP class)	IP 23
Insulation class	H
Excitation	brushless, self-exciting synchronous alternator
Voltage control	electronic, self-regulating +/- 1 %
Short circuit capability	3x nominal current
AC wavefactor total harmonic distortion	< 2 %
Radio interference	EN 55011 Class B, Group 1
Efficiency (cos phi 0,8 / 400V) at	
100 % load	95.9 %
75 % load	95.7 %
50 % load	94.9 %
Cooling air volume	11 142 m <sup>3</sup> /h

## Cooling System

Standard of cooling system	water cooled
Typical fan power consumption	
- horizontal mounted remote radiator	60.0 kW
- vertical mounted remote radiator	25.0 kW
Cooling air flow	system-dependent
Coolant temperature (at engine outlet in front of cooling equipment)	100 °C
Max. coolant temperature after engine (Alarm)	102 °C
Max. coolant temperature after engine (Shutdown)	104 °C
Coolant flow rate	68.5 m <sup>3</sup> /h
Operating pressure	2.5 bar
Max. pressure in cooling system	-
Max. pressure loss in external cooling system	0.7 bar

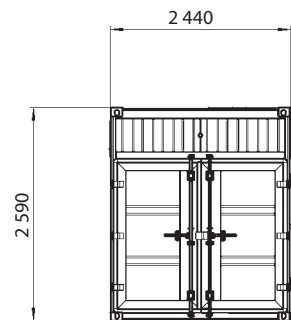
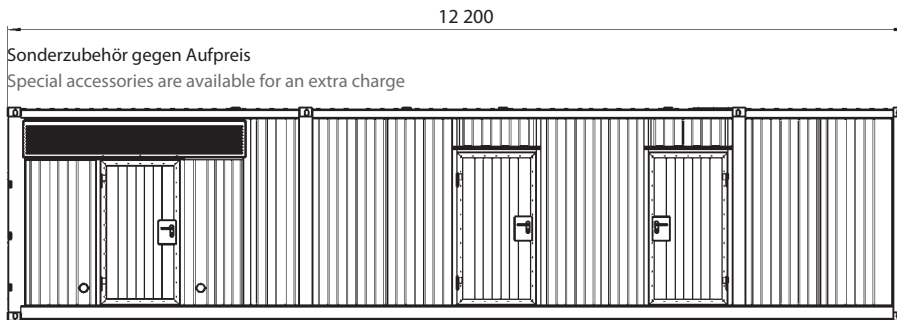
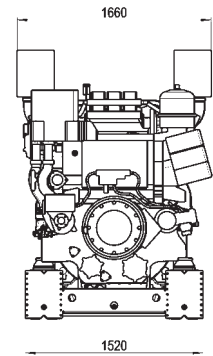
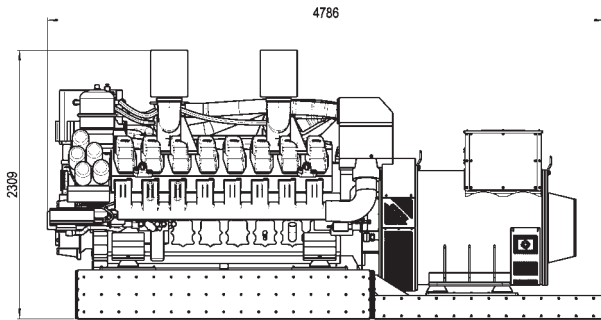
### Quality standards:

VDE 0530, DIN 6280, ISO 8528, IEC 34, BS 4999, BS 5000, BS 5514; We are certified specialist according to §19 I WHG.

All performance figures are to be understood for ambient conditions as follows: ambient temperature 25 °C, 100 m above sea level, rel. humidity 30 %.

We reserve the right to change specifications without notice.

# Diesel Generator Set Type AGS2250M 2 150/2 365 kVA



Your authorised dealer

Drawings are not true to scale.

Weights refer to the dry weights and represent a set with standard features. Accessories and loose parts are not accounted. Drawings are for illustrative purposes only and might include special accessories.

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A 3 / AGS2250M – 01/07/2010 – E

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