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Type
AGS3250M

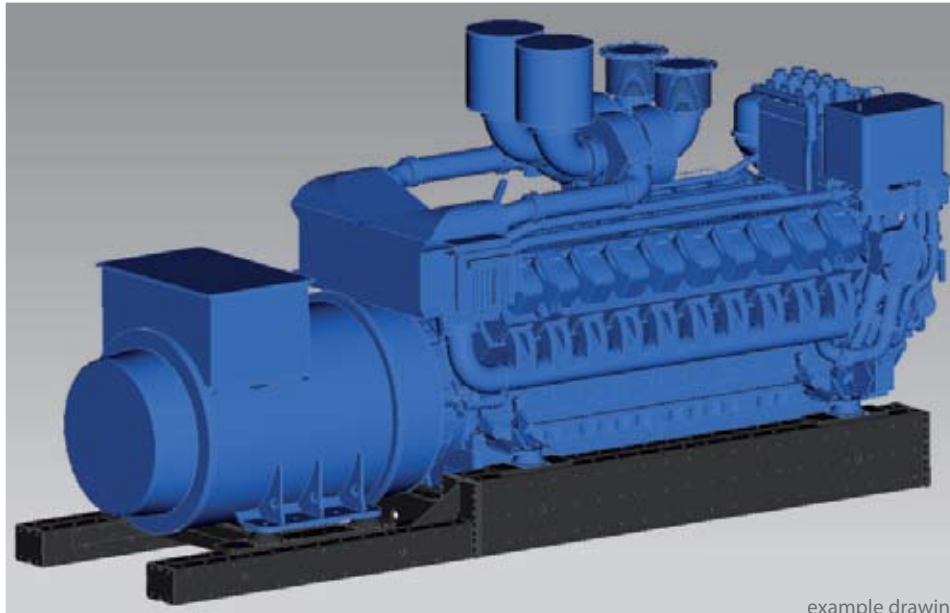
DIESEL GENERATOR SET
Fuel Consumption Optimized
3 120/3 435 kVA

Machine Set

Diesel Generator Set

Type AGS3250M

3 120/3 435 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) | 3 120 kVA |
| Gross output - Emergency power (EP) | 3 435 kVA |
| Power factor (cos phi) | 0.8 |
| Nominal voltage | 400 V / 230 V |
| Nominal current | 4 504 A |
| Frequency | 50 Hz |
| Speed | 1 500 min |
| Load acceptance | approx. 50 % |

Fuel System⁴

| | | |
|-------------------------------------|--|-----------|
| Fuel consumption at | | |
| 100 % load | | 595.5 l/h |
| 75 % load | | 458.3 l/h |
| 50 % load | | 322.6 l/h |
| 25 % load | | 181.5 l/h |
| Specific fuel consumption at | | |
| 100 % load | | 192 g/kWh |
| 75 % load | | 197 g/kWh |
| 50 % load | | 208 g/kWh |
| 25 % load | | 234 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 | 5 350 mm |
| Width | 1 170 mm |
| Height | 2 650 mm |
| Weight | 20 000 kg |
| Sound Proof | |
| Length | 12 200 mm |
| Width | 2 440 mm |
| Height | 2 590 mm |
| Weight | 6 500 kg |

Noise Emission⁵

| | |
|--|-----------|
| Sound power L_{WA} (Container) | 110 dB(A) |
| Sound pressure L_{pA} @ 7m (Container) | - |

Engine Data

| | |
|--------------------------------------|--------------------------------------|
| Manufacturer | MTU |
| Type | 20V 4000 |
| Configuration | 4 cycle; V; 20 cylinder Diesel |
| Aspiration | turbo charged with charge air cooler |
| Displacement | 95.4 l |
| Gross output - Prime power (PRP) | 2 590.0 kW |
| Gross output - Emergency power (LTP) | 2 849.0 kW |
| Compression ratio | 16.5:1 |
| Governor type | electronic |
| Oil capacity (sump) | 340 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 | 10 440 m ³ /h |
| Air cleaner type | dry; replaceable element with safety cartridge |

Exhaust System

| | |
|------------------------------|--------------------------|
| Max. exhaust gas temperature | 535 °C |
| Max. exhaust back pressure | 85 mbar |
| Exhaust gas flow | 28 080 m ³ /h |

Heat Rejection

| | |
|---|------------|
| Heat rejection to coolant | 1 040.0 kW |
| Heat rejection to charge air cooler | 410.0 kW |
| Heat rejection to engine radiation and convection | 105.0 kW |
| Heat rejection to alternator radiation and convection | 85.1 kW |

Legend:

¹PRP (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.

²LTP (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.

³max. additional output in kVA (PRP).

⁴Fuel consumption according to MTU datasheet.

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

Alternator Data

| | |
|---|---|
| Manufacturer | Aggretech |
| Type | ACG3250-4-400 |
| 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 | 96.1 % |
| 75 % load | 95.9 % |
| 50 % load | 95.0 % |
| Cooling air volume | 11 142 m ³ /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 | 83 m ³ /h |
| Operating pressure | 2.5 bar |
| Max. pressure in cooling system | - |
| Max. pressure loss in external cooling system | 0.7 bar |

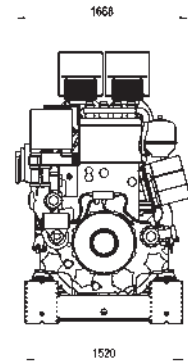
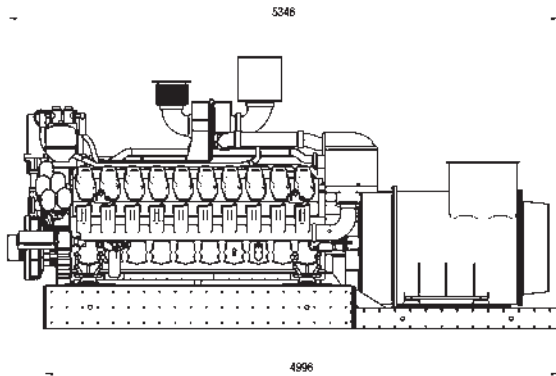
Quality standards:

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.

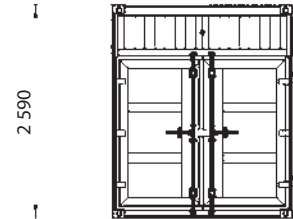
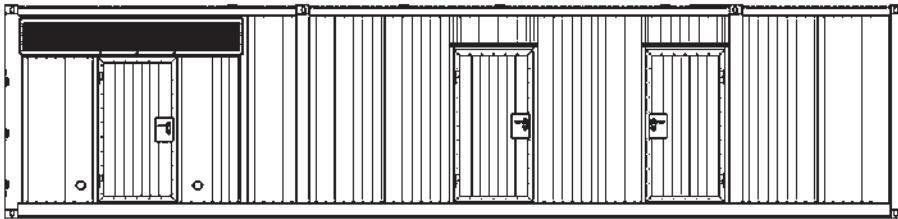
Diesel Generator Set Type AGS3250M 3 120/3 435 kVA



12 200

2 440

Sonderzubehör gegen Aufpreis
Special accessories are available for an extra charge



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 / AGS3250M – 01/07/2010 – E

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