



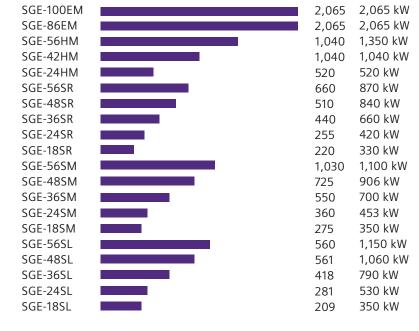
We power the world with innovative gas engines

Siemens Energy gas engine portfolio



# Gas engines from 209 to 2,065 kWb

#### 50 Hz or 60 Hz



- Data referred to thermal balances published at 20th November 2020
- Mechanical power of the SL Series includes Standby and Prime app

The Siemens Energy gas engine range has been designed and tailored to help meet our customers' challenges in a dynamic market environment.

Our models range from 190 to 2,065 kW, fulfilling the requirements of wide spectrum of applications in terms of efficiency, reliability, flexibility, and environmental compatibility.

The products offer low lifecycle costs and an excellent return of investment.



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Siemens Energy best-in-class, high-efficiency, low-emission gas engines and gensets are designed for various applications such as power generation, cogeneration, and waste to energy. These engines are suitable for a broad range of commercial, industrial and municipal uses with long service intervals, easy maintenance and low fuel consumption.

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# **SL- Gas engines:**

A robust, reliable and fuel flexible power generation

- Mechanical power output: from 209 kWb to 1,150 kWb (1,200, 1,500 and 1,800 rpm)
- Powered by natural gas, landfill and sewage gas, flare and well gas, syngas
- Proven reliable and robust design
- Fast start availability
- Fuel flexibility
- Fuel blending availability
- Eco friendly
- Cost efficient implementation and service
- Load acceptance great flexibility
- Best in class global efficiency

#### SL gas engines

- SGE-18SL
- SGE-48SL
- SGE-24SL
- SGE-56SL
- SGE-36SL





### **SGE-SL**

#### Gas engines

The SL gas engines offer systems for a large variety of applications as Cogeneration/trigeneration, Sewage/landfills/biodigestion processes for utilities and public buildings, and different kind of industries: textile, cement, food processing,... as well as greenhouses.

Also is able to operate with a low quality gases, flare gas and syngas from a gasification process.

Siemens Energy containerized CHP biogas genset solution for Johannesburg Water, South Africa.



#### **Applications**

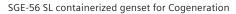
- Power generation (cont, LTP, ESP, PRP,...)
- CHP and Trigeneration
- · Waste to power
- Marine applications
- Mechanical drive (for pump driving)

#### References

- Universities
- Wesleyan (USA)
- Wolverhampton (UK)
- Utilities (Landfill, sewage plants)
- ETE (Brazil)
- Johannesburg (South Africa)
- Fypasa (Mexico)
- Storms Hog (USA)

- Fuel blending system available for biogas gensets
- Integrated proprietary GCS-E engine and GCS-G genset control systems
- High flexibility through modularity







SGE-48SL Gas Genset.

#### Power generation - CHP

Power output	241 to 1058 kWe (natural gas)
Fuel	Natural gas, biogas, landfill gas, sewage gas, flare gas, well gas, syngas
Frequency	50 and 60 Hz
Speed	1,200 / 1,500 / 1,800 rpm
Electric efficiency	36 - 39,8 %
Thermal efficiency	51 - 55 %
Total efficiency	90 - 91.5 %
NOx emissions	500 mg / Nm3

<sup>(\*)</sup> Lower emission engines are available.

#### Best-in-class global efficiencies for CHP in Natural gas S Series: 500 1,030 kWe

#### Physical dimensions

Approximate weight (genset)	4,000 to 10,000 kg
Length	2.8 - 4.3 m
Frequency	1.5 - 1.7 m
Height	2.1 - 2.3 m

- Lean burn, turbocharged and aftercooled
- Electronically carburated
- Fuel blending capability (natural gas/biogas) available
- Single or double circuit cooling system
- High cooling temperature option in main circuit 120°C
- Different auxiliary cooling circuit temperatures
- Oil cooler in main circuit option available

- Dry/wet exhaust manifold
- Single/double stage intercooler
- Reduced oil consumption
- · Emissions control
- Compliant with the U.S. emissions standards
- · Fast start availability

Supplied as a stand-alone engine, genset or in a fully containerized unit

### **SGE-SL**

#### Marine gas engines

The complete family of SGE-SL gen-sets with a variety of applications such as Auxiliary power generation and electrical propulsion - constant speed.

#### **Applications**

For a large variety of vessels: tugboats, tankers, ferries, oceanographic, special vessels and others

- Auxiliary power generation
- Electrical propulsion



A gas fueled vessel.

- Working speeds: 1,500 & 1,800 rpm
- Emissions compliant IMO TIER III.







Containerized 56SL genset for harbour use.

Power generation	
Power output*	320 - 1110 KVA (256-888 kWe)
Fuel	LNG. Methane number from 70
Frequency	50 and 60 Hz
Speed	1,500 / 1,800 rpm

Physical dimensions	
Approximate weight (genset)	320 - 1110 KVA (256-888 kWe)
Length	LNG. Methane number from 70
Width	50 and 60 Hz
Height	1,500 / 1,800 rpm

- Working speeds: 1,500 and 1,800 rpm
- Fuel: LNG (Liquefied Natural Gas). Methane number from 70
- Cooling configurations: With mechanical and electrical water pumps
- Water circuits T°: 90/40 °C

<sup>(\*)</sup> Based on existing gas engines power ratings for the ambient conditions required in the marine market.

Note 1) For a large variety of vessels as tugboats, tankers, ferries, oceanographic, special vessels.

# SR- Gas engines:

Designed for rich burn power generation

- Mechanical power output: from 220 kW to 870 kWb (1,800 rpm)
   Powered by natural gas
- Robust design
- Eco friendly
- Load acceptance great flexibility

#### SR gas engines

- SGE-18SR
- SGE-48SR
- SGE-24SR
- SGE-56SR
- SGE-36SR





## **SGE-SR**

#### **SR** Engines

This engine is spark ignited and powered by natural gas and well gas. Robust and reliable, has great flexibility for load acceptance and great performance for power generation and cogeneration.

#### **Applications**

- Power Generation
- Cogeneration



LNGo micro-scale natural gas liquefaction system.

- Only suitable for 60 Hz markets (USA)
- Part of the LNGo solution package



Siemens Energy LNGo Power modules (SL), Altagas Ltd. British Columbia, Canada.

#### Power generation - CHP

Power output*	273 to 844 kWe
Fuel	Natural gas, Well gas
Frequency	60 Hz
Speed	1,800 rpm
Electric efficiency	33 - 34 %

#### **Physical dimensions**

Approximate weight (genset)	4,000 to 10,000 kg
Length	2.8 - 4.3 m
Width	1.5 - 1.7 m
Height	2.1 - 2.3 m

- Rich burn
- Turbocharged and aftercooled
- Wet Exhaust Manifold
- Electronically carburated
- Powered by natural gas and well gas
- Double circuit cooling system

- Different auxiliary cooling circuit temperatures
- Single/double stage intercooler
- Great flexibility for load acceptance
- Emissions control
- Compliant with the U.S. emissions standards

# **SM- Gas engines:**

Designed for fuel flexible power generation

- Mechanical power output: from 1,055 to 1,100 kWb when powered by natural gas, landfill, and sewage gas (1,500 and 1,800 rpm)
- Mechanical power output from 275 to 1067 kWb when powered by propane LPG (1,500 and 1,800 rpm)
- Powered by natural gas, landfill, sewage gas and propane
- High efficiency
- Load acceptance great flexibility
- High quick start and operational availability
- Standard interchangeable parts

#### **SM** gas engines

- SGE-18SM
- SGE-48SM
- SGE-24SM
- SGE-56SM
- SGE-36SM





### **SGE-SM**

#### Gas engines

The SM gas engine offers systems for a large variety of applications such as Cogeneration/trigeneration.

The SM gas engine is also able to operate with other types of gases like propane or biogases.

#### **Applications**

#### References

#### SGE-24SM

#### SGE-56SM

- Power generation
- CHP and Trigeneration
- Waste to power
- Puerto Rico (propane), Food industry
- Trigeneration
- Anaerobic digestion from POME and animal manure in Thailand and Indonesia



Olein food industry plant, two containerized SGE-24SM engines.

- Great flexibility for running with fuels as propane
- Integrated proprietary GCS-E engine and GCS-G genset control systems
- High flexibility through modularity







A CHP package of SM genset.

Power q	eneration	-	CHP
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Power output*	275 to 1030 kWe (Propane (LPG))
Fuel	Propane
Frequency	50 and 60 Hz
Speed	1,500 / 1,800 rpm
Electric efficiency	36 - 36.3 %
Thermal efficiency	53 - 55 %
Total efficiency	91 - 93 %
NOx emissions	500 mg / Nm3

#### Power generation

Power output*	1,025 to 1,060 kWe
Fuel	Natural gas, biogas
Frequency	50 and 60 Hz
Speed	1,500 / 1,800 rpm
Electric efficiency	39 - 41 %
Thermal efficiency	51 - 52 %
Total efficiency	92 %
NOx emissions	500 mg / Nm3

#### **Physical dimensions**

Approximate weight (genset)	4,000 to 10,000 kg
Length	2.8 - 4.3 m
Width	1.5 - 1.7 m
Height	2.1 - 2.3 m

Supplied as a stand-alone engine, genset or in a fully containerized unit

- Lean burn, turbocharged and aftercooled
- Miller cycle
- Electronically carburated
- Double circuit cooling system
- Different auxiliary cooling circuit temperatures
- Oil cooler in main circuit option available
- Dry/Wet exhaust manifold
- Single/double stage intercooler
- Reduced oil consumption
- Emissions control
- Compliant with the U.S. emissions standards

# **HM- Gas engines:**

Designed for high performance power generation

- Mechanical power output: from 520 to 1,350 kWb (1,200, 1,500 and 1,800 rpm)
- Powered by natural gas, sewage gas and landfill gas
- Fuel flexibility and fuel blending availability
- High performance
- Low life cycle cost
- Cost efficient
- Compact solution
- Best-in-class electrical efficiencies in biogas and natural gas

#### **HM** gas engines

- SGE-24HM
- SGE-56HM
- SGE-42HM





### **SGE-HM**

#### Gas engines

The proven HM engine series offers a robust design with Miller cycle.

This is the first reference of the 42HM model engine recently released.

A cost efficient compact solution for power generation and cogeneration processes.

#### **Applications**

- Power generation (50 Hz and 60 Hz)
- CHP cogeneration

#### References

Sokołowie Podlaskim - Poland

- Supply two genset SGE-42HM
- Power output 2 MWe

Customer; SOKOŁÓW SA



Condensation plant - Sokołowie Podlaskim - Poland.

- Proven design
- High thermal efficiency
- Integrated proprietary GCS-E engine and GCS-G genset control systems





SGE-42HM genset.

SGE-56HM containerized genset.

#### Power generation - CHP

Power output*	502 to 1,315 kWe
Fuel	Natural gas, biogas
Frequency	50 and 60 Hz
Speed	1,200 /1,500 / 1,800 rpm
Electric efficiency	41 - 43 %
Thermal efficiency	47 - 49 %
Total efficiency	89 - 91 %
NOx emissions	500 mg / Nm3

Best-in-class electrical efficiencies in Biogas (W2P) engines, H Series: 24HM: 500 kWe; 42HM: 1,000 kWe; 56HM: 1,300 kWe

Best-in-class electrical efficiencies in Natural gas H Series: 24HM: 500 kWe; 56HM: 1,300 kWe

#### **Physical dimensions**

Approximate weight	6,200 to 11,000 kg
Length	4.0 - 5.6 m
Width	1.8 - 1.9 m
Height	1.7 - 2.3 m

Supplied as a stand-alone

engine, genset or in a fully

- Miller cycle
- High efficiency
- Turbocharged and aftercooled
- Dry exhaust manifold
- Electronically carburated
- Fuel blending capability natural gas/biogas available
- Oil cooler in main circuit option available
- Single/double stage intercooler
- Reduced oil consumption
- containerized unit Emissions control

#### HM: Key features

#### **CONTROL SYSTEM**

 Proprietary, fully integrated, engine control system for optimized performance and diagnosis

#### **LUBRICATION SYSTEM**

- O/C in HT or LT circuit Internal oil pump
- Centrifugal oil filter for W2P applications

#### **POWER TRAIN**

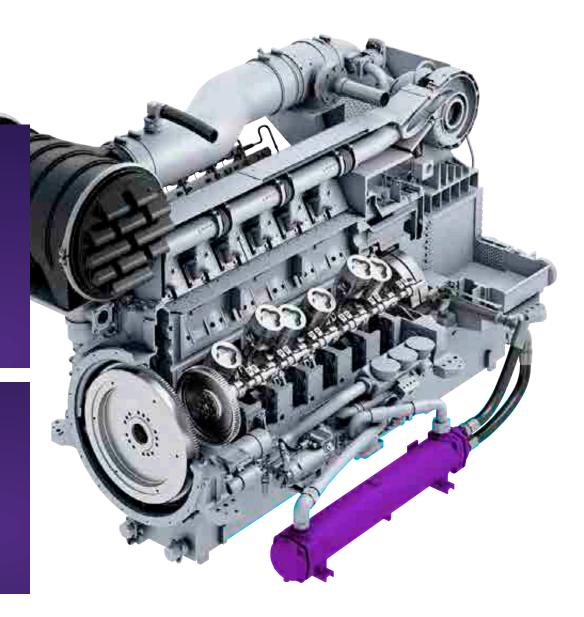
- High swirl pistons optimized for high efficiency
- Rings designed for optimized oil consumption

#### **INTAKE & EXHAUST SYSTEMS**

- One high-efficiency turbocharger, water cooled
- Two-stage, on engine integrated, charge cooler
- Two intake manifolds outside the engine. Dry exhaust manifolds, inside the engine

#### **COMBUSTION SYSTEM**

- Two camshafts, Miller cycle
- Cylinder head designed for maximum volumetric efficiency with watercooled exhaust valve seats
- Pre-chamber sparkplugs



# **EM- Gas engines:**

Designed for Best-in-class power generation

- Mechanical power output: 2,065 kWb (1,200 and 1,500 rpm)
- Direct Drive in 60 Hz (1,200 rpm) option
- Powered by natural gas
- Best-in-class, excellent efficiency in small footprint
- Lowest emissions
- High operational availability
- Low life cycle cost

#### **EM** gas engines

• SGE-86EM

SGE-100EM





# **SGE-EM**

#### Gas engines

The EM gas engines are the most compact competitive choice with the ability to deliver high power output with even 200 mg/Nm3 NOx emissions level.

#### Applications

• Power generation (50 Hz and 60 Hz)



SGI

- Highest efficiency in its class
- Lower emissions
- Lower footprint
- Best power/performance ratio
- Direct Drive for 60 Hz (1,200 rpm) option
- Lower OPEX







Internal section of the SGE-86EM engine.

#### Power generation - CHP

Power output*	2,012 kWe
Fuel	Natural gas
Frequency	50 and 60 Hz
Speed	1,200 /1,500 rpm
Electric efficiency	45.4 %
Thermal efficiency	41 %
Total efficiency	86.4 %
NOx emissions	500 mg / Nm3 NOx

### Best-in-class electrical efficiency in Natural gas E Series: 86 EM: - 2,000 kWe

#### **Physical dimensions**

Approximate weight	14,515 kg
Length	6.4 m
Width	2.0 m
Height	2.3 m

Supplied as a stand-alone engine, genset or in a fully containerized unit

- Miller cycle
- High efficiency turbocharger
- Dry exhaust manifold
- Electronically carburated
- New piston design for best performance
- Two circuit cooling systems
- Auxiliary cooling circuit variable temperature new concept.

- Oil cooler in main circuit
- Direct Drive for 60 Hz (1,200 rpm) option
- 90,000 hours for major overhaul
- Double stage intercooler
- Reduced oil consumption
- Emissions control

Note 1) Also available at 200 mg/Nm3 NOx.

#### EM: Key features

#### **LUBRICATION SYSTEM**

- On engine integrated O/C (HT water circuit)
- External, accessible, oil pump
- Centrifugal oil filter

#### **CONTROL SYSTEM**

 Proprietary, fully integrated, engine control system for optimized performance and diagnosis

#### **COMBUSTION SYSTEM**

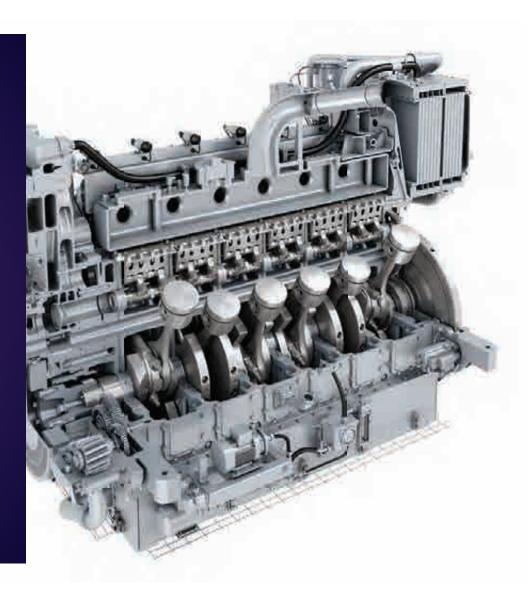
- One single camshaft, Miller cycle
- Cylinder head designed for maximum volumetric efficiency with water-cooled exhaust valve seats
- Pre-combustion chamber with direct gas injection optimized for high efficiency and low emissions

#### **INTAKE & EXHAUST SYSTEMS**

- Two high-efficiency turbocharger, water cooled, with two bypass valves
- Two-stage, on engine integrated, charge cooler
- One intake manifold inside the engine
- Dry exhaust manifolds, outside the engine

#### **POWER TRAIN**

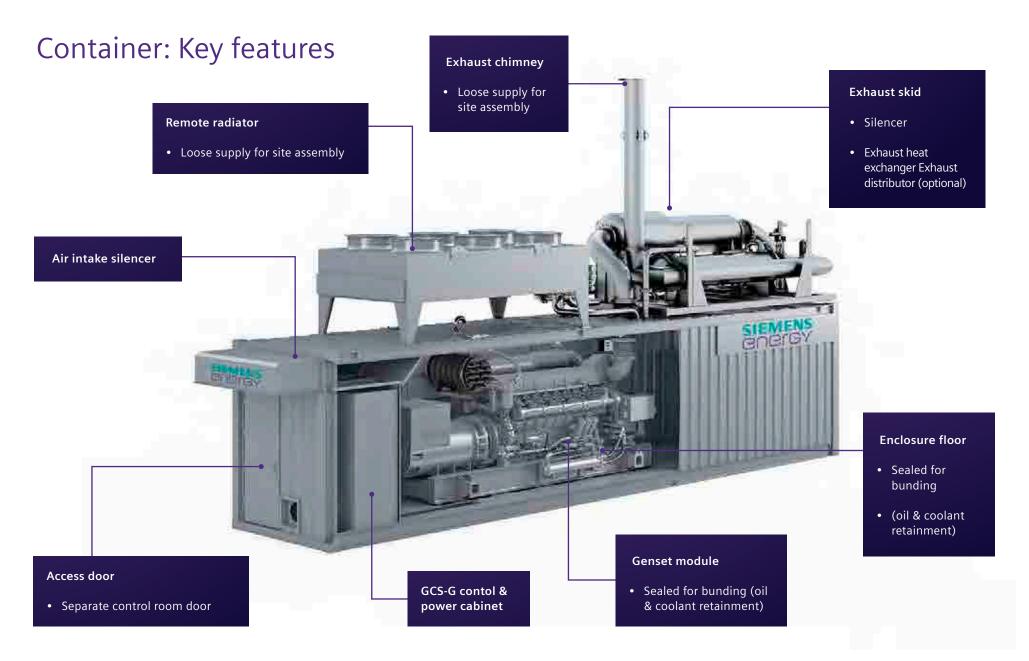
- Forged steel piston for high peak combustion pressures
- Rings designed for optimized consumption
- Low mass and high resistance connecting rod





#### Container models

40 feet container with embedded aircooler	40 feet container with top mounted aircooler	30 feet container with remote radiator	Soundproof canopy	
The container is comprised of following individual areas:	The container is comprised of following individual areas:	The container is comprised of following individual areas:	The container is comprised of a common bedframe that includes:  The genset, pumps, thermostatic valves, plate heat exchanger, expansion	
Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.	Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be	Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.		
Cabinet room containing the electrical, control and power panels. Aircooler room containing the cooling system and gas ramp. When necessary also	included if necessary.  Cabinet room containing the electrical, control and power panels.	Cabinet room containing control and power panels.	vessels, exhaust recovery system, oil tank and control and power panels.	
will include the heat recovery skid.  Top mounted area- containing the exhaust silencer, chimney and if necessary the exhaust heat recovery. (for local assembly) (*) External use	Top mounted area containing the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust heat recovery skid. (for local assembly) (*) External use	The gas ramp will be installed on foot of it in one side.  The cooling system, aircooler and exhaust silencer will be installed outside the container. Indoor use.	The exhaust silencer will be installed on the roof and the aircooler outside in a remote area. (*) External use	
Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 1 m	Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 1 m	Down to 75 dB (A) in 1 m	Down to 75 dB (A) in 1 m	
The container is designed for ambient temperatures of -18°C to 35°C with an option to reach up to 45°C	The container is designed for ambient temperatures of -18°C to 45°C	The container is designed for ambient temperatures of -10°C to 29.5°C	The container is designed for ambient temperatures of 0°C to 35°C	
Length:12,192 mm; Width: 2,438 mm; Height: 2,896 mm	Length:12,192 mm; Width: 2,438 mm; Height: 2,896 mm	Length:9,144 mm; Width: 2,438 mm; Height: 2,896 mm	Length:6,000 mm; Width: 2,000 mm; Height: 3,100 mm	
Power generation: S Series including 56SLT30. H Series Line engine.  Cogeneration: All engines except for V engines of the H Series and 56 lite engines	Power generation: H Series except for 24 HM, SM gas propane.  Cogeneration: H Series except for 24HM, SM gas propane and 56 liter engines	Fast start: 56SL T30 engine	Power Generation, Cogeneration for all L engines	
	with embedded aircooler  The container is comprised of following individual areas:  Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.  Cabinet room containing the electrical, control and power panels. Aircooler room containing the cooling system and gas ramp. When necessary also will include the heat recovery skid.  Top mounted area- containing the exhaust silencer, chimney and if necessary the exhaust heat recovery. (for local assembly) (*) External use  Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 1 m  The container is designed for ambient temperatures of -18°C to 35°C with an option to reach up to 45°C  Length:12,192 mm; Width: 2,438 mm; Height: 2,896 mm  Power generation: S Series including 56SLT30. H Series Line engine.  Cogeneration: All engines except for V	with embedded aircooler  The container is comprised of following individual areas:  Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.  Cabinet room containing the electrical, control and power panels.  Aircooler room containing the cooling system and gas ramp. When necessary also will include the heat recovery skid.  Top mounted area- containing the exhaust silencer, chimney and if necessary the exhaust heat recovery. (for local assembly) (*) External use  Down to 75 dB (A) in 10m except for the 56SL T30 model with 75 dB (A) in 1 m  The container is designed for ambient temperatures of -18°C to 35°C with an option to reach up to 45°C  Length:12,192 mm; Width: 2,438 mm; Height: 2,896 mm  Power generation: S Series including 56SLT30. H Series Line engine.  With top mounted aircooler  The container is comprised of following individual areas:  The container is comprised of following individual areas:  Engine room is the base module containing the eshaust sendule containing the genset, cooling pumps, thermostatic valves and daily oil tank. Also a heat water recovery skid can be included if necessary.  Cabinet room containing the electrical, control and power panels.  Top mounted area containing the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust silencer, chimney and the gens	with embedded aircoolerwith top mounted aircoolerwith remote radiatorThe container is comprised of following individual areas:The container is comprised of following individual areas:The container is comprised of following individual areas:Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.Engine room is the base module containing the genset, cooling pumps, thermostatic valves and daily oil tank.Cabinet room containing the electrical, control and power panels.Cabinet recovery skid can be included if necessary.Cabinet room containing the electrical, control and power panels.Aircooler room containing the exhaust silencer, chimney and if necessary the exhaust heat recovery. (for local assembly) (*)* External useCabinet room containing the exhaust silencer, chimney and the genset cooling system. If necessary also will include the exhaust heat recovery. (for local assembly) (*)* External useThe gas ramp will be installed on foot of it in one side.Down to 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 10 m except for the 56SL T30 model with 75 dB (A) in 10 m except for the 26SL T30 model with 75 dB (A) in 10 m except for to 24 HM, 5M gas propane.Down to 75 dB (A) in 1 mPower generation: S Series including 56SLT30. H Series Line engine.Power generation: H Series except for 24 HM, 5M gas propane and 56 lite enginesEngth: 2,438 mm; Height: 2,896 mmLength: 2,438 mm; Height: 2,896 mm	



#### Performance data overview

Speed (rpm)	Fuel type	Electrical Power (kW)	Electrical Eff. (%)	Thermal Power (kW)	Thermal Eff. (%)	Global Eff. (%)	Engine Dimensions [L x W x H] (m)	Engine Dry Weight (kg)	Genset Dimensions [L x W x H] (m)	Genset Dry Weight [kg]
	Natural gas	241	38.6	320	51.3	89.9	2.0 x 0.95 x 1.46	2,700	3.02 x 1.2 x 1.85	4,000
	Natural gas	322	36.1	485	54.6	90.7	2.61 x 0.95 x 1.46	3,500	3.66 x 1.27 x 1.91	4,940
1,200	Natural gas	484	38.6	656	52.2	90.8	2.64 x 1.37 x 1.74	4,200	3.83 x 1.66 x 2.13	7,230
	Natural gas	648	37.7	980	55.1	92.8	3.14 x 1.37 x 1.74	5,450	4.4 x 1.66 x 2.18	9,225
	Natural gas	762	39.0	1,013	51.8	90.8	3.0 x 1.55 x 2.2	5,800	4.67 x 1.66 x 2.18	10,000
	Natural gas	303	39.1	396	51.0	90.1	2.0 x 0.95 x 1.46	2,700	3.02 x 1.2 x 1.85	4,000
	Natural gas	404	38.5	546	51.9	90.4	2.61 x 0.95 x 1.46	3,500	3.66 x 1.27 x 1.91	4,940
1 500	Natural gas	610	38.9	810	51.7	90.6	2.64 x 1.37 x 1.74	4,200	3.83 x 1.66 x 2.13	7,230
1,500	Natural gas	811	38.8	1,093	52.2	91.0	3.14 x 1.37 x 1.74	5,450	4.4 x 1.66 x 2.18	9,225
	Natural gas	954	39.0	1,280	52.2	91.2	3.0 x 1.55 x 2.2	5,800	4.67 x 1.66 x 2.18	10,000
	Natural gas	1,058	39.8	1,379	51.8	91.6	3.0 x 1.55 x 2.2	5,800	4.67 x 1.66 x 2.18	10,000
	Natural gas	336	37.4	477	53.0	90.4	2.0 x 0.95 x 1.46	2,700	3.02 x 1.2 x 1.85	4,000
	Natural gas	436	38.5	666	55.1	93.6	2.61 x 0.95 x 1.46	3,500	3.66 x 1.27 x 1.91	4,940
1,800	Natural gas	676	37.7	953	53.1	90.8	2.64 x 1.37 x 1.74	4,200	3.83 x 1.66 x 2.13	7,230
	Natural gas	874	36.1	1,340	55.4	91.5	3.14 x 1.37 x 1.74	5,450	4.4 x 1.66 x 2.18	9,225
	Natural gas	1,030	39.0	1,534	54.5	93.5	3.0 x 1.55 x 2.2	5,800	4.67 x 1.66 x 2.18	10,000
	1,200	Natural gas	(rpm)         type         Power (kW)           Natural gas         241           Natural gas         322           1,200         Natural gas         484           Natural gas         648           Natural gas         762           Natural gas         303           Natural gas         404           Natural gas         610           Natural gas         811           Natural gas         954           Natural gas         1,058           Natural gas         336           Natural gas         436           1,800         Natural gas         676           Natural gas         874	(rpm)         type         Power (kW)         Eff. (%)           Natural gas         241         38.6           Natural gas         322         36.1           1,200         Natural gas         484         38.6           Natural gas         648         37.7           Natural gas         762         39.0           Natural gas         303         39.1           Natural gas         404         38.5           Natural gas         610         38.9           Natural gas         811         38.8           Natural gas         954         39.0           Natural gas         1,058         39.8           Natural gas         336         37.4           Natural gas         436         38.5           1,800         Natural gas         676         37.7           Natural gas         676         37.7           Natural gas         874         36.1	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)           Natural gas         241         38.6         320           Natural gas         322         36.1         485           1,200         Natural gas         484         38.6         656           Natural gas         648         37.7         980           Natural gas         762         39.0         1,013           Natural gas         303         39.1         396           Natural gas         404         38.5         546           Natural gas         610         38.9         810           Natural gas         811         38.8         1,093           Natural gas         954         39.0         1,280           Natural gas         1,058         39.8         1,379           Natural gas         336         37.4         477           Natural gas         436         38.5         666           1,800         Natural gas         676         37.7         953           Natural gas         874         36.1         1,340	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)           Natural gas         241         38.6         320         51.3           Natural gas         322         36.1         485         54.6           1,200         Natural gas         484         38.6         656         52.2           Natural gas         648         37.7         980         55.1           Natural gas         762         39.0         1,013         51.8           Natural gas         303         39.1         396         51.0           Natural gas         404         38.5         546         51.9           Natural gas         610         38.9         810         51.7           Natural gas         811         38.8         1,093         52.2           Natural gas         954         39.0         1,280         52.2           Natural gas         31,058         39.8         1,379         51.8           Natural gas         336         37.4         477         53.0           Natural gas         436         38.5         666         55.1           1,800         Natural gas         676         37	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)           Natural gas         241         38.6         320         51.3         89.9           Natural gas         322         36.1         485         54.6         90.7           1,200         Natural gas         484         38.6         656         52.2         90.8           Natural gas         648         37.7         980         55.1         92.8           Natural gas         762         39.0         1,013         51.8         90.8           Natural gas         303         39.1         396         51.0         90.1           Natural gas         404         38.5         546         51.9         90.4           Natural gas         610         38.9         810         51.7         90.6           Natural gas         811         38.8         1,093         52.2         91.0           Natural gas         954         39.0         1,280         52.2         91.2           Natural gas         336         37.4         477         53.0         90.4           Natural gas         436         38.5         666	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)         [L x w x H] (m)           Natural gas         241         38.6         320         51.3         89.9         2.0 x 0.95 x 1.46           Natural gas         322         36.1         485         54.6         90.7         2.61 x 0.95 x 1.46           Natural gas         648         37.7         980         55.1         92.8         3.14 x 1.37 x 1.74           Natural gas         648         37.7         980         55.1         92.8         3.14 x 1.37 x 1.74           Natural gas         762         39.0         1,013         51.8         90.8         3.0 x 1.55 x 2.2           Natural gas         303         39.1         396         51.0         90.1         2.0 x 0.95 x 1.46           Natural gas         610         38.9         810         51.7         90.6         2.64 x 1.37 x 1.74           Natural gas         811         38.8         1,093         52.2         91.0         3.14 x 1.37 x 1.74           Natural gas         954         39.0         1,280         52.2         91.2         3.0 x 1.55 x 2.2           Natural gas         336         37.4	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)         [Lx W x H] (m)         Weight (kg)           Natural gas         241         38.6         320         51.3         89.9         2.0 x 0.95 x 1.46         2,700           Natural gas         322         36.1         485         54.6         90.7         2.61 x 0.95 x 1.46         3,500           Natural gas         484         38.6         656         52.2         90.8         2.64 x 1.37 x 1.74         4,200           Natural gas         648         37.7         980         55.1         92.8         3.14 x 1.37 x 1.74         5,450           Natural gas         762         39.0         1,013         51.8         90.8         3.0 x 1.55 x 2.2         5,800           Natural gas         303         39.1         396         51.0         90.1         2.0 x 0.95 x 1.46         2,700           Natural gas         610         38.9         810         51.7         90.6         2.64 x 1.37 x 1.74         4,200           Natural gas         811         38.8         1,093         52.2         91.0         3.0 x 1.55 x 2.2         5,800           Natural gas         1,058	(rpm)         type         Power (kW)         Eff. (%)         Eff. (%)         [Lx W x H] (m)         Weight (kg)         [Lx W x H] (m)           Natural gas         241         38.6         320         51.3         89.9         2.0 x 0.95 x 1.46         2,700         3.02 x 1.2 x 1.85           Natural gas         322         36.1         485         54.6         90.7         2.61 x 0.95 x 1.46         3,500         3.66 x 1.27 x 1.91           Natural gas         484         38.6         656         52.2         90.8         2.64 x 1.37 x 1.74         4,200         3.83 x 1.66 x 2.13           Natural gas         648         37.7         980         55.1         92.8         3.14 x 1.37 x 1.74         5,450         4.4 x 1.66 x 2.18           Natural gas         762         39.0         1,013         51.8         90.8         3.0 x 1.55 x 2.2         5,800         4.67 x 1.66 x 2.18           Natural gas         303         39.1         396         51.0         90.1         2.0 x 0.95 x 1.46         2,700         3.02 x 1.2 x 1.85           1,500         Natural gas         610         38.9         810         51.7         90.6         2.64 x 1.37 x 1.74         4,200         3.83 x 1.66 x 2.18           1,500

Speed (rpm)	Fuel type	Electrical Power (kW)	Electrical Eff. (%)	Thermal Power (kW)	Thermal Eff. (%)	Global Eff. (%)	Engine Dimensions [L x W x H] (m)	Engine Dry Weight (kg)	Genset Dimensions [L x W x H] (m)	Genset Dry Weight [kg]
	Biogas	241	38.4	322	51.4	89.8	2.0 x 0.95 x 1.46	2,700	3.02 x 1.2 x 1.85	4,000
-	Biogas	322	36.0	486	54.5	90.5	2.61 x 0.95 x 1.46	3,500	3.66 x 1.27 x 1.91	4,940
1,200	Biogas	484	38.3	663	52.4	90.7	2.64 x 1.37 x 1.74	4,200	3.83 x 1.66 x 2.13	7,230
_	Biogas	648	36.3	982	55.0	91.3	3.14 x 1.37 x 1.74	5,450	4.4 x 1.66 x 2.18	9,225
_	Biogas	762	38.6	1,026	52.0	90.6	3.0 x 1.55 x 2.2	5,800	4.67 x 1.66 x 2.18	10,000
	Biogas	303	39.0	398	51.0	90.0	2.0 x 0.95 x 1.46	2,700	3.02 x 1.2 x 1.85	4,000
_	Biogas	404	38.4	546	51.8	90.2	2.61 x 0.95 x 1.46	3,500	3.66 x 1.27 x 1.91	4,940
1,500	Biogas	610	38.9	810	51.6	90.5	2.64 x 1.37 x 1.74	4,200	3.83 x 1.66 x 2.13	7,230
	Biogas	811	38.7	1,097	52.2	90.9	3.14 x 1.37 x 1.74	5,450	4.4 x 1.66 x 2.18	9,225
_	Biogas	954	38.9	1,287	52.2	91.1	3.0 x 1.55 x 2.2	5,800	4.67 x 1.66 x 2.18	10,000
	Biogas	336	37.2	480	53.1	90.3	2.0 x 0.95 x 1.46	2,700	3.02 x 1.2 x 1.85	4,000
_	Biogas	436	35.9	663	54.7	90.6	2.61 x 0.95 x 1.46	3,500	3.66 x 1.27 x 1.91	4,940
1,800 -	Biogas	676	37.6	955	53.1	90.7	2.64 x 1.37 x 1.74	4,200	3.83 x 1.66 x 2.13	7,230
	Biogas	874	36.0	1,345	55.4	91.4	3.14 x 1.37 x 1.74	5,450	4.4 x 1.66 x 2.18	9,225
-	Biogas	1,030	36.4	1,540	54.6	91.0	3.0 x 1.55 x 2.2	5,800	4.67 x 1.66 x 2.18	10,000
	1,200 - - 1,500	rpm) type  Biogas  Biogas  1,200 Biogas  Biogas	(rpm)         type         Power (kW)           Biogas         241           Biogas         322           1,200         Biogas         484           Biogas         648           Biogas         762           Biogas         303           Biogas         404           1,500         Biogas         610           Biogas         811           Biogas         954           Biogas         336           Biogas         436           1,800         Biogas         676           Biogas         874	(rpm)         type         Power (kW)         Eff. (%)           Biogas         241         38.4           Biogas         322         36.0           1,200         Biogas         484         38.3           Biogas         648         36.3           Biogas         762         38.6           Biogas         303         39.0           Biogas         404         38.4           1,500         Biogas         610         38.9           Biogas         811         38.7           Biogas         954         38.9           Biogas         336         37.2           Biogas         436         35.9           1,800         Biogas         676         37.6           Biogas         874         36.0	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)           Biogas         241         38.4         322           Biogas         322         36.0         486           Biogas         484         38.3         663           Biogas         648         36.3         982           Biogas         762         38.6         1,026           Biogas         303         39.0         398           Biogas         404         38.4         546           Biogas         610         38.9         810           Biogas         811         38.7         1,097           Biogas         954         38.9         1,287           Biogas         336         37.2         480           Biogas         436         35.9         663           Biogas         676         37.6         955           Biogas         874         36.0         1,345	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)           Biogas         241         38.4         322         51.4           Biogas         322         36.0         486         54.5           Biogas         484         38.3         663         52.4           Biogas         648         36.3         982         55.0           Biogas         762         38.6         1,026         52.0           Biogas         303         39.0         398         51.0           Biogas         404         38.4         546         51.8           Biogas         610         38.9         810         51.6           Biogas         811         38.7         1,097         52.2           Biogas         954         38.9         1,287         52.2           Biogas         336         37.2         480         53.1           Biogas         436         35.9         663         54.7           Biogas         676         37.6         955         53.1           Biogas         676         37.6         955         53.1           Biogas         676	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)           Biogas         241         38.4         322         51.4         89.8           Biogas         322         36.0         486         54.5         90.5           Biogas         484         38.3         663         52.4         90.7           Biogas         648         36.3         982         55.0         91.3           Biogas         762         38.6         1,026         52.0         90.6           Biogas         303         39.0         398         51.0         90.0           Biogas         404         38.4         546         51.8         90.2           1,500         Biogas         610         38.9         810         51.6         90.5           Biogas         811         38.7         1,097         52.2         90.9           Biogas         954         38.9         1,287         52.2         91.1           Biogas         336         37.2         480         53.1         90.3           1,800         Biogas         436         35.9         663         54.7         90	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)         [Lx w x H] (m)           Biogas         241         38.4         322         51.4         89.8         2.0 x 0.95 x 1.46           1,200         Biogas         322         36.0         486         54.5         90.5         2.61 x 0.95 x 1.46           1,200         Biogas         648         38.3         663         52.4         90.7         2.64 x 1.37 x 1.74           Biogas         648         36.3         982         55.0         91.3         3.14 x 1.37 x 1.74           Biogas         762         38.6         1,026         52.0         90.6         3.0 x 1.55 x 2.2           Biogas         303         39.0         398         51.0         90.0         2.0 x 0.95 x 1.46           1,500         Biogas         610         38.9         810         51.6         90.5         2.64 x 1.37 x 1.74           Biogas         811         38.7         1,097         52.2         90.9         3.14 x 1.37 x 1.74           Biogas         954         38.9         1,287         52.2         91.1         3.0 x 1.55 x 2.2           Biogas         336	(rpm)         type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)         Eff. (%)         [L x W x H] (m)         Weight (kg)           Biogas         241         38.4         322         51.4         89.8         2.0 x 0.95 x 1.46         2,700           Biogas         322         36.0         486         54.5         90.5         2.61 x 0.95 x 1.46         3,500           Biogas         648         38.3         663         52.4         90.7         2.64 x 1.37 x 1.74         4,200           Biogas         762         38.6         1,026         52.0         90.6         3.0 x 1.55 x 2.2         5,800           Biogas         303         39.0         398         51.0         90.0         2.0 x 0.95 x 1.46         2,700           Biogas         404         38.4         546         51.8         90.2         2.61 x 0.95 x 1.46         3,500           1,500         Biogas         610         38.9         810         51.6         90.5         2.64 x 1.37 x 1.74         4,200           Biogas         811         38.7         1,097         52.2         90.9         3.14 x 1.37 x 1.74         5,450           Biogas         336	(rpm)         type         Power (kW)         Eff. (%)         Eff. (%)         Eff. (%)         Eff. (%)         [Lx w x H] (m)         Weight (kg)         [Lx w x H] (m)           Biogas         241         38.4         322         51.4         89.8         2.0 x 0.95 x 1.46         2,700         3.02 x 1.2 x 1.85           Biogas         3322         36.0         486         54.5         90.5         2.61 x 0.95 x 1.46         3,500         3.66 x 1.27 x 1.91           Biogas         484         38.3         663         52.4         90.7         2.64 x 1.37 x 1.74         4,200         3.83 x 1.66 x 2.18           Biogas         762         38.6         1,026         52.0         90.6         3.0 x 1.55 x 2.2         5,800         4.67 x 1.66 x 2.18           Biogas         303         39.0         398         51.0         90.0         2.0 x 0.95 x 1.46         2,700         3.02 x 1.2 x 1.85           Biogas         404         38.4         546         51.8         90.2         2.61 x 0.95 x 1.46         3,500         3.66 x 1.27 x 1.91           1,500         Biogas         610         38.9         810         51.6         90.5         2.64 x 1.37 x 1.74         4,200         3.83 x 1.66 x 2.18

#### Performance data overview

Speed (rpm)	Fuel type	Electrical Power (kW)	Electrical Eff. (%)	Thermal Power (kW)	Thermal Eff. (%)	Global Eff. (%)	Engine Dimensions [L x W x H] (m)	Engine Dry Weight (kg)	Genset Dimensions [L x W x H] (m)	Genset Dry Weight [kg]
1,500	Natural gas	1,025	39.7	1,319	51.0	90.7				
1,800	Natural gas	1,063	37.9	1,486	52.9	90.8	20.455.22	5.000	4.67. 4.66. 2.40	10.000
1,500	Biogas	1,025	39.4	1,330	51.1	90.5	3.0 x 1.55 x 2.2	5,800	4.6/ x 1.66 x 2.18	10,000
1,800	Biogas	1,063	37.8	1,494	52.9	90.7				
	Natural gas	268	32.4	498	60.1	92.5	2.55 x 1.19 x 2.30	2,750	2.67 x 1.36 x 2.43	4,100
	Natural gas	361	31.6	698	61.2	92.8	2.99 x 1.23 x 2.58	3,500	3.00 x 1.38 x 2.79	5,200
1,800	Natural gas	539	32.5	1,000	60.3	92.8	2.91 x 1.61 x 3.35	4,500	3.18 x 1.75 x 3.50	7,750
	Natural gas	724	31.8	1,403	61.5	93.3	3.42 x 1.61 x 3.75	5,400	4.26 x 1.75 x 3.91	9,250
	Natural gas	839	33.2	1,518	60.1	93.3	3.42 x 1.52 x 4.03	5,600	4.26 x 1.75 x 3.91	9,300
1,200	Natural gas	1,011	42.5	1,120	47.1	89.6	4.04 x 2.14 x 2.22	7,500	5.54 x 2.14 x 2.32	12,200
	Natural gas	501	42.7	564	48.0	90.7	3.22 x 2.08 x 1.59	4,200	3.95 x 2.08 x 1.74	6,230
1,500	Natural gas	1,011	43.0	1,090	46.4	89.4	3.57 x 2.15 x 2.37	6,250	4.86 x 2.15 x 2.37	10,735
	Natural gas	1,315	43.4	1,400	46.2	89.6	4.04 x 2.14 x 2.22	7,500	5.54 x 2.14 x 2.32	12,200
	Natural gas	499	40.5	599	48.5	89.0	3.22 x 2.08 x 1.59	4,200	3.95 x 2.08 x 1.74	6,230
1,800	Natural gas	1,007	41.1	1,184	48.4	89.5	3.57 x 2.15 x 2.37	6,250	4.86 x 2.15 x 2.37	10,735
	Natural gas	1,305	41.3	1,534	48.4	89.7	4.04 x 2.14 x 2.22	7,500	5.54 x 2.14 x 2.32	12,200
	1,500 1,800 1,800 1,800 1,800 1,800	(rpm)         Fuel type           1,500         Natural gas           1,800         Natural gas           1,800         Biogas           1,800         Biogas           Natural gas         Natural gas           Natural gas         Natural gas           1,200         Natural gas           1,500         Natural gas           Natural gas         Natural gas	(rpm)         Fuel type         Power (kW)           1,500         Natural gas         1,025           1,800         Natural gas         1,063           1,500         Biogas         1,025           1,800         Biogas         1,063           Natural gas         268           Natural gas         361           1,800         Natural gas         539           Natural gas         724           Natural gas         1,011           Natural gas         501           1,500         Natural gas         1,011           Natural gas         1,315           Natural gas         499           1,800         Natural gas         1,007	(rpm)         Fuel type         Power (kW)         Eff. (%)           1,500         Natural gas         1,025         39.7           1,800         Natural gas         1,063         37.9           1,500         Biogas         1,025         39.4           1,800         Biogas         1,063         37.8           Natural gas         268         32.4           Natural gas         361         31.6           1,800         Natural gas         539         32.5           Natural gas         724         31.8           Natural gas         839         33.2           1,200         Natural gas         1,011         42.5           Natural gas         501         42.7           1,500         Natural gas         1,011         43.0           Natural gas         1,315         43.4           Natural gas         499         40.5           1,800         Natural gas         1,007         41.1	(rpm)         Fuel type         Power (kW)         Eff. (%)         Power (kW)           1,500         Natural gas         1,025         39.7         1,319           1,800         Natural gas         1,063         37.9         1,486           1,500         Biogas         1,025         39.4         1,330           1,800         Biogas         1,063         37.8         1,494           Natural gas         268         32.4         498           Natural gas         361         31.6         698           1,800         Natural gas         539         32.5         1,000           Natural gas         724         31.8         1,403           1,200         Natural gas         1,011         42.5         1,120           Natural gas         501         42.7         564           1,500         Natural gas         1,011         43.0         1,090           Natural gas         1,315         43.4         1,400           Natural gas         499         40.5         599           1,800         Natural gas         1,007         41.1         1,184	(rpm)         Fuel type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)           1,500         Natural gas         1,025         39.7         1,319         51.0           1,800         Natural gas         1,063         37.9         1,486         52.9           1,500         Biogas         1,025         39.4         1,330         51.1           1,800         Biogas         1,063         37.8         1,494         52.9           Natural gas         268         32.4         498         60.1           Natural gas         361         31.6         698         61.2           1,800         Natural gas         539         32.5         1,000         60.3           Natural gas         724         31.8         1,403         61.5           Natural gas         1,011         42.5         1,518         60.1           1,200         Natural gas         501         42.7         564         48.0           1,500         Natural gas         1,011         43.0         1,090         46.4           Natural gas         1,315         43.4         1,400         46.2           Natural gas         499         40.5<	(rpm)         Fuel type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)           1,500         Natural gas         1,025         39.7         1,319         51.0         90.7           1,800         Natural gas         1,063         37.9         1,486         52.9         90.8           1,500         Biogas         1,025         39.4         1,330         51.1         90.5           1,800         Biogas         1,063         37.8         1,494         52.9         90.7           Natural gas         268         32.4         498         60.1         92.5           Natural gas         361         31.6         698         61.2         92.8           1,800         Natural gas         539         32.5         1,000         60.3         92.8           1,800         Natural gas         724         31.8         1,403         61.5         93.3           1,200         Natural gas         1,011         42.5         1,120         47.1         89.6           1,500         Natural gas         1,011         43.0         1,090         46.4         89.4           1,500         Natural gas         1,315<	(rpm)         Fuel type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)         Eff. (%)         [Lx W x H] (m)           1,500         Natural gas         1,025         39.7         1,319         51.0         90.7           1,800         Natural gas         1,063         37.9         1,486         52.9         90.8           1,500         Biogas         1,063         39.4         1,330         51.1         90.5           1,800         Biogas         1,063         37.8         1,494         52.9         90.7           Natural gas         268         32.4         498         60.1         92.5         2.55 x 1.19 x 2.30           1,800         Natural gas         361         31.6         698         61.2         92.8         2.99 x 1.23 x 2.58           1,800         Natural gas         539         32.5         1,000         60.3         92.8         2.91 x 1.61 x 3.35           1,800         Natural gas         724         31.8         1,403         61.5         93.3         3.42 x 1.52 x 4.03           1,200         Natural gas         1,011         42.5         1,120         47.1         89.6         4.04 x 2.14 x 2.22	(rpm)         Fuel type         Power (kW)         Eff. (%)         Eff. (%)         Eff. (%)         Eff. (%)         [Lx W x H] (m)         Weight (kg)           1,500         Natural gas         1,025         39.7         1,319         51.0         90.7	Kryn         Fuel type         Power (kW)         Eff. (%)         Power (kW)         Eff. (%)         Eff. (%)         [L x W x H] (m)         Weight (kg)         Lx W x H] (m)           1,500         Natural gas         1,025         39.7         1,319         51.0         90.8         1,025         5.800         4.67 x 1.66 x 2.18           1,500         Biogas         1,025         39.4         1,330         51.1         90.5         5.800         2.55 x 1.19 x 2.30         2,750         2.67 x 1.36 x 2.43           1,800         Biogas         1,063         37.8         1,494         52.9         90.7         2.55 x 1.19 x 2.30         2,750         2.67 x 1.36 x 2.43           1,800         Biogas         1,063         37.8         1,498         60.1         92.5         2.55 x 1.19 x 2.30         2,750         2.67 x 1.36 x 2.43           1,800         Natural gas         361         31.6         698         61.2         92.8         2.99 x 1.23 x 2.58         3.500         3.00 x 1.38 x 2.79           1,800         Natural gas         539         32.5         1,000         60.3         92.8         2.91 x 1.61 x 3.35         4,500         3.18 x 1.75 x 3.50           1,800         Natural gas         839 <t< td=""></t<>

Engine Model	Speed (rpm)	Fuel type	Electrical Power (kW)	Electrical Eff. (%)	Thermal Power (kW)	Thermal Eff. (%)	Global Eff. (%)	Engine Dimensions [L x W x H] (m)	Engine Dry Weight (kg)	Genset Dimensions [L x W x H] (m)	Genset Dry Weight [kg]
SGE - 56HM	1,200	Biogas	1,011	42.2	1132	47,3	89.5	4.04 x 2.14 x 2.22	7,500	5.54 x 2.14 x 2.32	12,200
SGE-24HM		Biogas	501	42.5	567	48.1	90.6	3.22 x 2.08 x 1.59	4,200	3.95 x 2.08 x 174	6,230
SGE-42HM	1500	Biogas	1,011	42.8	1,101	46.6	89.4	3.57 x 2.15 x 2.37	6,250	4.86 x 2.15 x 2.37	10,735
SGE-56HM		Biogas	1,315	43.1	1,412	46.3	89.4	4.04 x 2.14 x 2.22	7,500	5.54 x 2.14 x 2.32	12,200
SGE-24HM		Biogas	499	40.2	604	48.6	88.8	3.22 x 2.08 x 1.59	4,200	3.95 x 2.08 x 1.74	6,230
SGE-42HM	1,800	Biogas	1,007	41.0	1,190	48.5	89.5	3.57 x 2.15 x 2.37	6,250	4.86 x 2.15 x 2.37	10,735
SGE-56HM		Biogas	1,305	41.1	1,547	48.6	89.7	4.04 x 2.14 x 2.22	7,500	5.54 x 2.14 x 2.32	12,200
SGE-86EM	1,500	Natural gas	2,013	45.5	2,085	47.1	92.6	6.56 x 2.43 x 2.75	15,500	6.56 x 2.43 x 2.75	25,000
SGE-100EM	1,200	Natural gas	2,007	45.3	2,057	46.5	91.8	6.56 x 2.43 x 2.75	15,500	6.56 x 2.43 x 2.75	25,000

#### Notes

- (1) For S Series: Natural Gas MN>75 and Biogas: 62,5% CH4, 36% CO2 and 1,5% N2. For other type of gases, please contact Siemens Energy Engines.
- (2) For H and E Series: Natural Gas MN>80 and Biogas 67% CH4 and 33% CO2 (only for H Series).
- (3) Thermal efficiency of the S Series engines calculated considering the exhaust gases heat recovery until 120°C.
- (4) Thermal efficiency of the E Series engines calculated considering the exhaust gases heat recovery until 80°C.
- (5) Emissions level for SR Series: 0,1 g/bHPh.
- (6) SR dimensions including catalyzer.

#### Remarks

Engine performance data acc. to ISO 3046/1, 25°C and 500 meters above sea level, with a tolerance of +5%.

- Emissions level: NOx < 500 mg/Nm3 (50 Hz) and 1 g/bHPh (60Hz).

Lower emission engines are available. Please, contact Siemens Energy for performance data.

- Electrical power at power factor = 1.400 V (50Hz) and 480 V(60 Hz).
- The dimensions and weights are approximate values and are subject to changes without prior notice.
- The values given in this data sheet are for information purposes only and not binding.

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