



GENERATING SET GE SX-16000 KDM

The images are for reference



POWER RATINGS		
* Stand-By single-phase power (LTP)	16 kVA (14.4 kW) / 230V/69.6A	
* PRP single-phase power	14.5 kVA (13 kW) /230V/63A	
* Stand-By single-phase power (LTP)	16 kVA (14.4 kW) / 115V/139.2A	
* PRP single-phase power	14.5 kVA (13 kW) /115V/126A	
Frequency	50 Hz	
٥	0.0	

^{*} Powers declared according to ISO 8528

FEATURES

- Digital control unit
- · Alternator with electronic voltage regulation "AVR"
- General magnetothermic switch
- High sensitivity differential switch 30mA
- Sealed base capable of containing any leaks of liquids present in the engine, avoiding environmental pollution
- · Central lifting hook
- Rounded edges to allow rainwater to drain
- Canopy with wide opening to allow easy maintenance (replacement of air, oil and fuel filters
- Large capacity tank
- Fuel level sensor
- External plugs for oil and water drainage
- Emergency button
- · Prepared for remote Start and Stop control
- Prepared for connection to PAC-I switchboard (ATS)
- Automatic version for emergency intervention in the event of a power failure. (Switchboard excluded)
- Low noise level
- · Compliant with EC / EU Directives









water cooled

diesel

single-phase

electric start

DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level) $\,$

 $\textbf{LTP power: stand-by power:} \ Maximum \ available power for use \ with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.$

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

 $\begin{tabular}{ll} \textbf{COP power}: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours. \end{tabular}$

ENGINE 3000 RPM

4 STROKE, NATURAL ASPIRATED	
Model	KOHLER KDW1003
Stand-By net power	17.15 kW (23.3 hp)
PRP net power	15.6 kW (21.2 hp)
COP net power	/
Cylinders / Displacement	3 / 1028 cm ³ (1,028 lt.)
Bore / Stroke	75 / 77.6 (mm)
Compression ratio	22.8 :1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	5.4 lt./h
100 % to PRP	4.9 lt./h
75 % to PRP	3.7 lt./h
50 % to PRP	2.7 lt./h
COOLING SYSTEM	
Total system cap only engine	1
Fan air flow	93 m³/min.
LUBRICATION SYSTEM	
Total oil system capacity	2.6 lt.
Oil capacity in sump	2.5 lt
Oil consumption at full load	/

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	EXHAUST SYSTEM	
	Maximum exhaust gas flow	3.2 m³/mim.
	Max. exhaust gas temp.	540 °C
	Maximum back pressure	8000 kPa (0.08 bar)
	External diameter exhaust pipe	/
	ELECTRICAL SYSTEM	12 Vdc
	Starter motor power	1.6 kW
	Battery charging alternator cap.	40 A
	Cold start	- 15 °C
	With cold start aid	/
	AIR FILTER	Dry
	Combustion air flow	1.6 m³/min.
	HEAT REJECTED AT FULL LOAD	
	To exhaust system	/
	To water and oil	/
ed.	Radiated to room	/
	To charge cooler	



ALTERNATOR

SYNCHRONOUS, SINGLE	-PHASE, SELF-EXCITED, SELF-REGULATED
Continuos power	15 kVA
Stand-by power	16.5 kVA
Three phase voltage	220 ÷ 240 Vac
Frequency	50 Hz
Cos φ	0.9
Model A.V.R.	AVR960D
Voltage regulation acc.	± 2 %
Sustained short circuit current	≤ 4 In
Transient dip (100% load)	< 15 %
Recovery time	/
Efficiency at 100% load	83.5 % (230V - Cos φ1)
Insulation	Class H
Connection - Terminals	Serie - N°4
Electromagnetic compatibility (R.F.I. suppr.)	/
Waveform distorsion - THD	< 6 %
Thelephone interference - THF	/

REACTANCES (15 KVA - 230V)	
Direct axis synchronuos - Xd	/
Direct axis transient - X'd	/
Subdirect axis transient - X"d	1
Quadrature axis synchronuos - Xq	/
Quadr. axis subtransient - X"q	1
Negative sequence - X2	/
Zero sequence - X0	1
TIME CONSTANTS	
Transient - T'd	1
Subtransient - T"d	/
Open circuit - T'do	/
Armature - Ta	/
Short-circuit ratio Kcc	/
IP protection degree	IP 23
Cooling air flow	/
Coupling Bearing	Direct SAE 5 -6 ½ - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	38 lt.
Running time (75% to PRP)	10.3 h
Starter battery	12 Vdc -50Ah / 420A CCA(EN)
IP protection degree	IP 23

* Measured acoustic power LwA (pressure LpA)	93.6 dB(A) (68.6 dB(A) @ 7m)
* Guaranteed acoustic power LwA (pressure LpA)	95 dB(A) (70 dB(A) @ 7m)
Performance class	G1

^{*} Acoustic power in accordance with Directive 2000/14/EC

AUTOMATIC CONTROL PANEL 230V CONTROL PANEL 230V/115V

- InteliNano Plus controller
- Thermal cut-offs for motor protection: 1x30A 1 x 16A
- Emergency stop button
- Siren
- TCM 35 remote control connector
- 16-pin PAC connector (ATS)
- Charger
- Fuses: 2x 2A
- · Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- Magnetothermic switch for 230V 32A sockets
- Magnetothermic switch for 230V 16A sockets
- Output sockets: 1x 230V 63A 2P + T CEE IP 67 1x 230V 32A 2P + T CEE IP 67 1x 230V 16A 2P + T CEE IP 67

1x 230V 16A 2P + T Schuko

• Earth terminal (PE)

- InteliNano Plus controller
- Thermal cut-offs for motor protection: 1x30A 1 x 16A
- Emergency stop button
- Siren
- TCM 35 remote control connector
- Fuses: 2x 2A
- · Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- Output sockets: 1x 230V 32A 2P + T CEE

2x 230V 16A 2P + T CEE

2x 115V 32A 2P + T CEE

3x 115V 16A 2P + T CEE

- Thermal cut-offs for socket protection: 3 x 30A 5 x16A
- Earth terminal (PE)







CONTROL PANEL

GE SX-16000 KDM

CONTROL PANEL 230V

- Thermal cut-offs for motor protection: 1x30A 1 x 16A
- Emergency button
- Siren
- TCM 35 remote control connector
- 2x2A fuses
- · Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- · Magnetothermic switch for 230V 32A sockets
- Magnetothermic switch for 230V 16A sockets
- CEE output sockets: 1x 230V 63A 2P + T CEE IP 67 1x 230V 32A 2P + T CEE IP 67 2x 230V 16A 2P + T CEE IP 67
- SCHUKO output sockets: 1x 230V 63A 2P + T CEE IP 67 1x 230V 32A 2P + T CEE IP 67 2x 230V 16A 2P + T SCHUKO
- Earth terminal (PE)



INTELINANO PLUS	CONTROLLER CHARACTERISTICS
Operating mode	• MAN AUTO
Display	Graphic back-light LCD display 128x64 pixels
LEDs	Engine operationAUTO operating modeAlarm
Buttons	 START button STOP button AUTO button N° 2 buttons for controller programming
Generator Measures	Voltage: L1-L2 Current: I1 Powers: kVA Frequency
Engine Measures	Water temperature (optional) Oil pressure (optional) Fuel level Rpm meter Battery voltage Maintance Hours meter
Generator Protections	Short circuit Over-Udervoltage Over-Uderfrequency Phase sequence

Engine Protections	Overspeed High water temperature warning Low oil pressure warning Low fuel level warning Under battery voltage Battery charge alternator failure Storf failure Emergency stop
AMF functins (Automatic control panel only)	Measure mains voltage: L1-L2 / L2-L3 / L3-L1 - N-L1 / N-L2 / N-L3 Measure mains frequency Three phase detection Over-Under mains voltage Over-Under mains frequency Phase sequence
Features	Event log and alarms (10 events) Operator interface with icons, no text Remote Start and Stop Pre-heating Fully programmable from the panel or from PC Direct connection to engines with ECU via Can bus J1939 Manual operation (MRS) with remote start IP65 protection Operation temperature: -20°C / +70°C
Communication	Setup USB portCAN BUS interface (J1939 only)







WEIGHT - DIMENSIONS AND ACCESSORIES

GE SX-16000 KDM



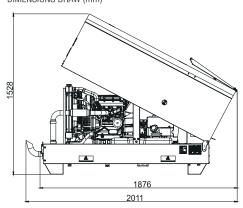
DRY WEIGHT MACHINE:

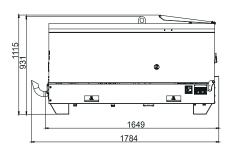
• 388 Kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW (mm)







OPTIONS ON REQUEST

- Load transfer switch (ATS) PAC 28 Single-Phase (70A) (Only with automatic
- Load transfer switch (ATS) PAC I-28 809ATS Single-Phase(70A)
- Remote control TCM35
- Site tow CTL255
- · Road trailer CTV4
- Earthing

AVAILABLE VERSIONS

REMOTE	Radio control
HEATER	 Heater WH (Only with automatic control panel)
PLUS	 Gauges - water temperature and oil pressure Main battery switch
TOP	 Gauges - water temperature and oil pressure Main battery switch Radio control

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

2006/42 / EC (Machines Directive)

2014/35 / EU (Low Voltage Directive)

2014/30 / EU (EMC Directive)

2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)

ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)





ISO 9001:2015 - Cert. 0192

WARRANTY

All devices are covered by the manufacturer's warranty.

