

language

GENERATING SET GE 385 SSX

The images are for reference



POWER RATINGS

50 Hz

0.8

385 kVA (308 kW) / 400V / 556A

350 kVA (280 kW) / 400V / 505A 345 kVA (276 kW) / 400V / 498A

FEATURES

- Engine with the lowest fuel consumption in its class
- Electronic speed governor
- Alternator with automatic voltage regulation "AVR"
- Four pole circuit breaker
- Bunded base suitable to contain any liquids leakage from engine avoiding environmental pollution
- Oil drain pump
- Fuel pre-filter with water separator
- Low level water radiator sensor
- Main battery switch
- Large doors for better and easy maintenance (air, oil, fuel filters replacement)
 2 lifting augo
- 2 lifting eyes
- Control panel with digital control unit available with automatic or manual version
- Suitable for a wide range of uses in general construction
- Complies with regulation 2016/1628/EU FOR STATIONARY USE ONLY



DEFINITION

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

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.

 ${\rm COP}$ power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

ENGINE 1500 RPM

* Stand-By three-phase power (LTP)

* PRP three-phase power

* COP single-phase power

* Output powers according to ISO 8528-1

Frequency

Cos φ

4 STROKE, DIRECT INJECTION, TURBOCHARGED		
Model	SCANIA DC13 072A 02-11	
* Stand-By net power	350 kW	
* PRP net power	320 kW	
* COP net power	302 kW	
Cylinders / Displacement	6 in linea / 12.7 lit. (12700 cm ³)	
Bore / Stroke	130 / 160 (mm)	
Compression ratio	16.3: 1	
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/	
Speed governor type	Electronic	
FUEL CONSUMPTION		
110 % (Stand-by power)	77.5 lit./h	
100 % to PRP	70.5 lit./h	
75 % to PRP	53.5 lit./h	
50 % to PRP	36.5 lit./h	
COOLING SYSTEM		
Total system cap only engine	54 lit 16 lit.	
Fan air flow	540 kg/min	
LUBRIFICATION SYSTEM		
Total oil system capacity	38 lit.	
Oil capacity in sump	30 lit. (min) - 36 lit. (max)	
Oil consumption at full load	< 0.35 lit./h	

EXHAUST SYSTEM	
Maximum exhaust gas flow	28 kg/mim.
Max. exhaust gas temp.	485 °C
Maximum back pressure	10 kPa (0.1 bar)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	24 Vdc
Starter motor power	6 kW
Battery charging alternator cap.	100 A
Cold start	- 10 °C
With cold start aid	/
AIR FILTER	Dry
Combustion air flow	27 kg/min
HEAT REJECTED AT FULL LOAD	
To exhaust system	229 kW
To water and oil	111 kW
Radiated to room	27 kW
To charge cooler	59 kW
* Output powers according to ISO 3046-1	

Output powers according to ISO 3046-1





ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS		
Continuos power	350 kVA	
Stand-by power	385 kVA	
Three phase voltage	380-415 Vac	
Frequency	50 Hz	
Cos φ	0.8	
Model A.V.R.	Digital MEC-20	
Voltage regulation acc.	± 0.5 %	
Sustained short circuit current	1500 A	
Transient dip (100% load)	< 20 %	
Recovery time	< 0.3 sec	
Efficiency at 100% load	93.4 % (400V - Cos φ 0.8)	
Insulation	Class H	
Connection - Terminals	Star - N°12	
Electromagnetic compatibility (R.F.I. suppr.)	EN 55011- ClassB, group 1	
Waveform distorsion - THD	< 2 %	
Thelephone interference - THF	< 2 %	

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345 %
30 %
14 %
175 %
16.4 %
15.2 %
3.8 %
0.14 sec
0.014 sec
1.42 sec
0.018 sec
0.35
IP 23
0.83 m ³ /sec.
Direct SAE 1 -14 - N°1

GENERAL SPECIFICATIONS

Fuel tank capacity	580 lt.
Running time (75% to PRP)	10.8h
Starter battery	24 Vdc [2x12Vdc-180Ah 1100A CCA(EN)]

IP protection degree	IP 44
Acoustic pressure LpA	70.2 dB(A) @ 7m
Performance class (ISO 8528)	G2





CONTROL PANEL

- Controller IntiLite AMF25
- Controller supply switch
- Siren

- Emergency stop buttom
- TCM 35 remote control plug
- Circuit breaker
- PAC (ATS) plug Automatic control panel only

AMF25 CONTROLLER CHARACTERISTICS

- · Battery charger Automatic control panel only
- Earth terminal (PE)



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Operating mode	OFF - MAN AUTO - TEST	
Display LEDs	 Graphic back-light LCD display 128x64 pixels Gen-set voltage OK Gen-set failure GCB ON (only for Automatic transfer unit) Mains voltage OK (only for Automatic transfer unit) Mains failure (only for Automatic transfer unit) MCB ON (only for Automatic transfer unit) 	AMF functins (Automatic control panel only)
Buttons	 START button STOP button FAULT RESET button RESET HORN button MODE selection button Pulsante chiusura/apertura GCB button Pulsante chiusura/apertura MCB button N° 4 buttons for controller programming 	Features
Generator Measures	 Voltage : L1-L2 / L2-L3 / L3-L1 - N-L1/N-L2/N-L3 Current : I1 - I2 - I3 Powers : kVA - kW - kVAR (totali e per fase) Energy : kVAh - kWh - kVARh Cos φ (medium and per phase) Frequency 	Communication
Engine Measures	Water temperature Oil pressure Fuel level Rpm meter Battery voltage Maintance Hours meter Starts number	
Generator Protections	 Overload Overcurrent Short circuit Over-Udervoltage Over-Uderfrequency Voltage asymmetry Unbalanced current Phase sequence 	CONTROL PAN SOCKETS Each socket is protect by own
Engine Protections	 Overspeed High water temperature warning Low oil pressure warning Low fuel level warning Over-Uder battery voltage Battery charge alternator failure Start failure Stop failure Emergency stop 	automatic switch. Circuit breaker for 125A and 63A sockets. GFI and circuit breaker 30mA for 32A and 16A socket.

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Direct connection to engines with ECU via Can Bus J1939 External start and stop

3 selectable languages

Programmable inputs and outputs

L1 - N-L1/N-L2/N-L3

Voltage asymmetry Phase sequence

Historical events

 Measure mains frequency • Three phase detection

Over-Under mains voltage Over-Under mains frequency

• Dual mutual stand-by application

3 programmable test timers Panel or PC programming

- Alternative configurations (50 / 60Hz)
- IP 65 protection
- Operating temperature: -20 ° C + 70 ° C

Measure mains voltage : L1-L2 / L2-L3 / L3-

- RTU Modbus (optional board with RS232 & RS485 outputs is needed) • TCP/IP Modbus (optional Ethernet board with
- RJ45 output is needed) • SNMP Modbus (optional Ethernet board with
- RJ45 output is needed) Internet (optional Ethernet board optional is
- needed) • GSM/GPRS (integrated Modem board optional
- is needed) for Gen-set remote control via SMS or internet

GPS / 4G modem (optional) (geographical tracking via WebSupervisor

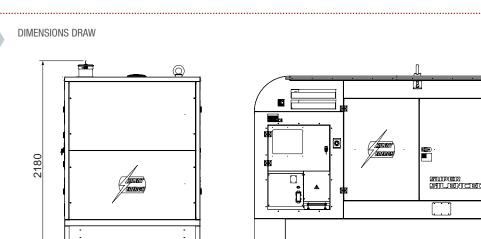
 Over-Udervoltage Over-Uderfrequency 		
 Voltage asymmetry 	CONTROL PANEL VERSION WITH OUTPUT SOCKETS	
Unbalanced current	SOCKETS Each socket is protect by own	1x 125A 400V 3P-N-T IP IP67 1x 63A 400V 3P-N-T IP67
Phase sequence Overspeed	automatic switch.	1x 32A 400V 3P-N-T IP67
 High water temperature warning 	Circuit breaker for 125A and 63A	1x 16A 400V 3P-N-T IP67
 Low oil pressure warning 	sockets.	1x 230V 2P-T IP67
Low fuel level warning	GFI and circuit breaker 30mA for	1x 230V 2P-T Schuko IP54
Over-Uder battery voltage	32A and 16A socket.	
 Battery charge alternator failure 		
Start failure		
 Stop failure 		
 Emergency stop 		
 Low water level shudown (option) 		

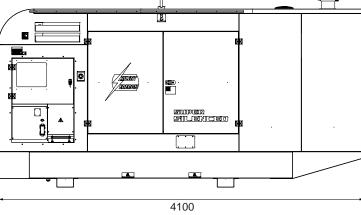


Generating set pictured may include optional accessories.

WEIGHT - DIMENSIONS AND ACCESSORIES

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OPTIONS ON REQUEST

• Automatic transfer switch unit (ATS) PAC 550-M (800A)

1520

- Remote control TCM35
- Earthing kit



DRY WEIGHT MACHINE:

• 4200 kg

VERSIONS ON REQUEST

- · Version with manual control panel 6 output sockets EC and SCHUKO (see Control board with output sockets section)
- · Manual digital control panel (without sockets) · Parallel switch board

(\B) FACTORY INSTALLATION OPTIONS

- · Electronic leakage relay
- Isometer
- · Volt adjustable from control panel
- · Radio control
- Automatic fuel transfer pump
- · 3-way valve fuel system with quick connection for external fuel tank supply
- · Engine water heater WH
- Plug-in module with double RS232 and RS485 port
- GSM modem with antenna
- GPS / 4G modem with antenna
- Internet / Ethernet plug-in module with Web Server
- Input / Output extension module (No. 16 tot.)

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS 2006/42 / EC (Machinery Directive) 2014/35 / UE (Low Voltage Directive) 2014/30 / UE (Electromagnetic Compatibility Directive) 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.

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