

Model: S330D5

Powered by SCANIA

Output Rating

MODEL		Power rating		Voltage available
		PRIME(1)	STANDBY(2)	
S330D5	50Hz	240KW	264KW	380/220V 400/230V 415/240V
	PF:0.8	300KVA	330KVA	

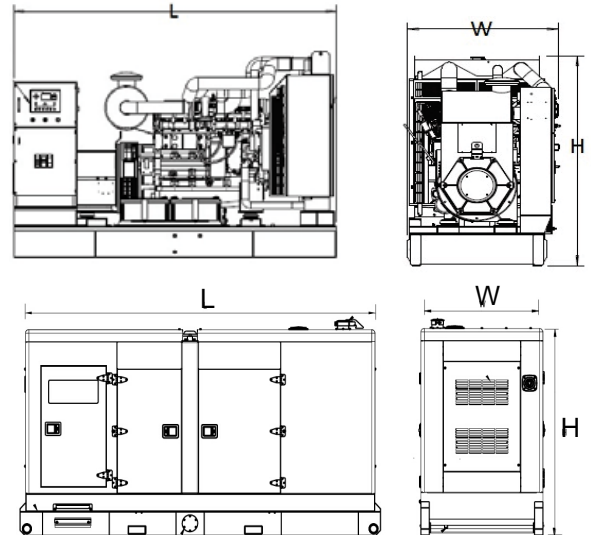
General Information

Model	S330D5	
Engine	DC09 072A 02-13	
Speed control type	ECU	
Phase	3	
Control System	Digital	
System voltage	24V	
Frequency	50HZ	
Engine Speed(RPM)	1500	
Fuel Consumption (g/kWh)	Standby power(2)	192
	Prime Power(1)	192
	75% prime power	189
	50% prime power	196



Dimension and Weight

Dimension	Open	Silent
Length (L)	3806mm	4500mm
Width (W)	1100mm	1305mm
Height (H)	1833mm	2165mm
Net Weight	2800kg	3600kg



AGG POWER genset are compliant with EC mark which include the following directives:

* 2006/42/EC Machinery safety.

* 2006/95/EC Low voltage

* EN 60204-1: 2006+A1:2009, EN ISO 12100:2010, EN ISO 13849-1: 2008, EN 12601: 2010

(1) Prime Power (PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operation conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24h of operation shall not exceed 70% of the PRP.

(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during a variable electrical power sequence, under the stated operation conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.



■ Engine Specification

Basic data

General

Configuration and number of cylinders	5 in-line	
Working principle	4-stroke	
Bore x stroke	130 x 140	mm
Displacement	9.3	dm ³
Compression ratio	16:1	
Firing order	1 - 2 - 4 - 5 - 3	
Piston speed		
at 1500 rpm	7.0	m/s
at 1800 rpm	8.4	m/s
Pistons	Aluminium pistons	
Camshaft	High position alloy steel	
Connection rods	I-section press forgings of alloy steel	
Crankshaft	Alloy steel with hardened and polished bearing surfaces	
Rotation, seen from flywheel end	Counter clockwise	
Total moment of inertia with flywheel		
SAE 14	2.63	kgm ²
Number of teeth on flywheel ring gear	158	
Weight approx. (excl. oil and coolant)	950	kg

Lubrication system

Oil capacity (deep front oil sump without ladder frame)		
min	31	dm ³
max	36	dm ³
Oil consumption	<0.2	g/kWh
Oil change intervals	500	h
Oil grade		
engines run on low-sulphur fuel	ACEA E3, E4, E5 or E7	
engines not run on low-sulphur fuel	Total Base Number (TBN) at least 12 (ASTM 2896)	
Oil pressure		
normal	3-6	bar
minimum permitted at idle speed	0.7	bar
Oil temperature		
normal	90-110	°C
Oil cleaner	Centrifugal	
filtration	5-7	Micron
Oil filter	Paper/Full flow	
Oil cooler	Water cooled/Full flow	

Injection system

Type	Unit injectors, PDE
Governor	Scania Engine Management System, EMS
Fuel filter	Paper filter element, 6 micro
Fuel pre-filter with water separator	Paper filter element, 10 micro



Engine Specification

Cooling system

Coolant volume excl. radiator	
DC09 072/073A.....	15 dm ³
DC09 071A.....	16 dm ³
Coolant volume incl. 1.1 m ² radiator	
DC09 072/073A.....	37 dm ³
DC09 071A.....	38 dm ³
Coolant temperature	90-95 °C
Number of thermostats.....	1
Opening temperature	80/87 °C

Intake system

Permissible pressure drop in intake system	
with cleaned or new filter.....	30 mbar
with blocked (dirty) filter.....	65 mbar

Electrical system, optional equipment

Type	1-pole, 24V, DC
Starter, standard equipment.....	1-pole, 24V, 6,0 kW
Alternator, standard equipment.....	1-pole, 28V, 100A

	1500 rpm (50 Hz)		1800 rpm (60 Hz)		Unit
	PRP	ESP	PRP	ESP	
Gross power	267	294	292	321	kW
	304	335	328	361	kVA
Gross torque	1700	1872	1549	1703	Nm
Spec. fuel consumption					
full load	194	197	201	204	g/kWh
3/4 load	188	189	197	197	g/kWh
1/2 load	192	191	201	199	g/kWh
Heat rejection					
to coolant	90	102	98	110	kW
to exhaust gas	186	214	222	258	kW
to charge air	56	59	66	67	kW
to surrounding air	22	24	24	27	kW
Air consumption	23	23	27	27	kg/min
Air temperature					
before charge air cooler	196	201	197	201	°C
after charge air cooler	51	52	52	53	°C
Pressure in intake manifold	2.3	2.4	2.2	2.3	Bar
Fall of pressure, charge air cooler	0.10	0.10	0.10	0.10	Bar
Exhaust flow	24	24	28	28	kg/min
Exhaust temperature	460	506	473	529	°C
Step load performance					
(According to class G2. See section 2 for more information.)	67	60	81	73	%
	181	181	238	238	kW



▪ Alternator

Alternator		
Poles	Num	4
Winding Connections (standard)		Star-serie
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		self-excited, brushless
Voltage Regulator		A.V.R. (Electronic)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

▪ Options

Engine	Alternator	Generator Sets	Fuel System	Canopy
<ul style="list-style-type: none"> •Water Jacket Preheater •Oil Preheater 	<ul style="list-style-type: none"> •Winding Temperature measuring Instrument •Alternator Preheater •PMG •Anti-damp and anti-corrosion treatment •Anti-condensation heater 	<ul style="list-style-type: none"> •Tools with the machine 	<ul style="list-style-type: none"> • Low fuel level alarm •Automatic fuel feeding system •Fuel T-valves 	<ul style="list-style-type: none"> •Rental Type Canopy •Trailer
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
<ul style="list-style-type: none"> •Oil with the machine 	<ul style="list-style-type: none"> •Protection board from hotness 	<ul style="list-style-type: none"> • Front heat protection • Coolant (-30°C) 	<ul style="list-style-type: none"> •Remote control panel • ATS • Remote controller • Synchronizing controller 	<ul style="list-style-type: none"> • 415/240V • 380/220V • 220/127V • 220/127V • 200-115V



Control Panel



Product description

- Single gen-set controller for Stand-by and Prime-power applications
- Direct communication with EFI engines
- Total remote monitoring and control

Key features

- Easy to install, configure and use
- Wide range of communication capabilities including:
 - connection via RS232, RS485, CAN and on board USB
 - internet access using Ethernet or GPRS
 - support for Modbus and SNMP protocols
- Cloud-based monitoring and control
- Active SMS and emails in different languages
- 2x 5 A binary outputs for cranking and fuel solenoid
- Option for up to 16 additional binary inputs/outputs
- Flexible event based history with up to 350 events
- Load shedding, dummy load capability
- Automatic temperature based cooling/heating
- Comprehensive gen-set protections
- Multipurpose flexible timers
- True RMS measurement

Available extension modules

Product	Description	Order code
CM-Ethernet	Ethernet interface	CM2ETHERXBX
CM-GPRS	GSM modem / wireless internet	CM2GPRSXXBX
CM-RS232-485	Dual port interface	CM223248XBX
EM-BIO8-EFCP	8 additional binary inputs/outputs	EM2BIO8EXBX

Functions and protections

Description	ANSI code	Description	ANSI code
Over voltage	59	Load shedding	32P
Under voltage	27	Overload	32
Voltage asymmetry and Phase rotation**	47	Power factor	55
Over frequency	81H	Temperature	49T
Under frequency	81L	Gas (fuel) level	71
Over current*	50 + 51	Earth fault current	50N + 64
Current unbalance	46		

* Short current only

** Fixed setting

