Model:S715D5

Powered by SCANIA

Output Rating

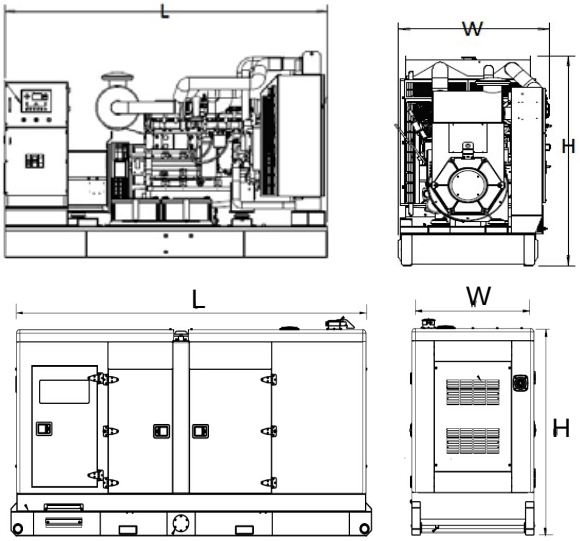
MODEL		Power rating		Voltage available
		PRIME(1)	STANDBY(2)	
S715D5	50Hz	520KW	572KW	380/220V 400/230V 415/240V
	PF:0.8	650KVA	715KVA	

General Information

Model		S715D5
Engine		DC16 072A 02-12
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)	193
	Prime Power(1)	193
	75% prime power	191
	50% prime power	195

Dimension and Weight

Dimension	Open	Silent
Length (L)	3807mm	4612mm
Width (W)	1328mm	1600mm
Height (H)	1600mm	2465mm
Net Weight	5000kg	5800kg



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 caried 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	90° V8	
Working principle	4-stroke	
Bore x stroke	130 x 154	mm
Displacement	16.4	dm^3
Compression ratio	16.7:1	
Firing order	1 - 5 - 4 - 2 - 6 - 3 - 7 - 8	
Piston speed		
at 1500 rpm	7.7	m/s
at 1800 rpm	9.24	m/s
Pistons	Steel 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	3.48	kgm^2
Number of teeth on flywheel ring gear	158	
Weight approx. (excl. oil and coolant)	1340	kg

Lubrication system

Oil capacity (deep front oil sump with ladder frame)		
min	40	dm^3
max	48	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	
XPI engines	Extra high pressure, XPI
PDE engines	Unit injectors, PDE
Governor	Scania Engine Management System, EMS
Fuel filter	
XPI engines	Paper filter element, 3 micro
PDE engines	Paper filter element, 6 micro
Fuel pre-filter with water separator	
XPI engines	Paper filter element, 5 micro
PDE engines	Paper filter element, 10 micro

Engine Specification

Cooling system

Coolant volume excl. radiator

DC16 072/078A	24	dm^3
DC16 071A	26	dm^3

Coolant volume incl. 1.5 m^2 radiator

DC16 072/078A	68	dm^3
DC16 071A	70	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, 7.0 kW
Alternator, standard equipment	1-pole, 28V, 100A

	1500 rpm (50 Hz)		1800 rpm (60 Hz)		Unit
	PRP	ESP	PRP	ESP	
Gross power	578	634	619	678	kW
	651	716	700	770	kVA
Gross torque	3680	4036	3284	3597	Nm
Spec. fuel consumption					
full load	193	193	199	199	g/kWh
3/4 load	191	191	195	196	g/kWh
1/2 load	195	194	202	201	g/kWh
Heat rejection					
to coolant	218	236	235	255	kW
to exhaust gas	392	427	449	487	kW
to charge air	93	110	114	135	kW
to surrounding air	53	58	59	64	kW
Air consumption	37	40	44	47	kg/min
Air temperature					
before charge air cooler	193	209	200	221	°C
after charge air cooler	46	48	48	51	°C
Pressure in intake manifold	2.1	2.4	2.1	2.4	Bar
Fall of pressure, charge air cooler	0.10	0.10	0.15	0.15	Bar
Exhaust flow	39	42	46	49	kg/min
Exhaust temperature	563	565	552	557	°C
Step load performance					
(According to class G2.	60	56	66	61	%
See section 2 for more information.)	345	355	411	411	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
●Water Jacket Preheater ●Oil Preheater	●Winding Temperature measuring Instrument ●Alternator Preheater ●PMG ●Anti-damp and anti-corrosion treatment ●Anti-condensation heater	●Tools with the machine	● Low fuel level alarm ●Automatic fuel feeding system ●Fuel T-valves	●Rental Type Canopy ●Trailer
Lubricating System	**Exhaust System**	**Cooling System**	**Control Panel**	**Voltages**
●Oil with the machine	●Protection board from hotness	● Front heat protection ● Coolant (-30°C)	●Remote control panel ● ATS ● Remote controller ● Synchronizing controller	● 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	Descritption	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