• Model: **S880E6**

Powered by SCANIA





■ Generator Specification

Service	PRP ₍₁₎	ESP(2)
Power (kVA)	800	880
Power (kW)	640	704
Rated speed (r.p.m)	18	00
Standard voltage (V)	440/	254V
Rated at power factor(cos phi)	0.	8





AGG Power gensets are compliant with ISO 9001 and CE standard, 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) PRP (Prime Power):

According to ISO8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power):

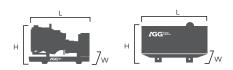
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. No overload capability is available.

Powers Voltage (V)	ES KVA	F KW	PR KVA	P KW	Standby Amps
480/277	880	704	800	640	1058.5
440/254	880	704	800	640	1154.7
380/220	880	704	800	640	1337.1
220/127	880	704	800	640	2309.4
208/120	880	704	800	640	2442.7

Performand	ce Data	
Model		S880E6
En	igine brand	Scania
En	igine model	DC16 072A 02-13
Spee	d control type	ECM
Phase		3
Control system		Digital
Starter motor voltage		24V
Frequency		60HZ
Engine speed (RPM)		1800
	100% standby power	200
Fuel	100% prime power	199
Consumption	75% prime power	195
(g/kWH)	50% prime power	202

Standard reference Conditions

relative humidity. Fuel consumption dat with diesel fuel with specific gravity of $0.85\ \mathrm{and}$ conforming to BS 2869: 1998, Class A2



Dimension and Weight			
Dimension	Open	Silent	
Length (L)	3600mm	4900mm	
Width (W)	2090mm	1800mm	
Height (H)	1460mm	2530mm	
Net Weight	3917KG	REQ	
Fuel Tank (L)	REQ	REQ	

Note: This parameters allows for some acceptable deviations.



■ Engine Specification: DC16 072A 02-13

Basic technical data	
No. of cylinders	8
Cylinder arrangement	90° V
Cycle	4 stroke
Displacement	16.4 dm3
Bore	130 mm
Stroke	154 mm
Compression ratio	16.7:1
Piston speed	
at 1500rpm	7.7 m/s
at 1800rpm	9.24 m/s
Pistons	Steel pistons
Camshaft	High position alloy steel

Lubrication system	
Oil capacity	
min	40 dm3
max	48 dm3
Oil consumption	<0.2 g/kWh
Oil change intervals	500 h
Oil pressure	
normal	3-6 bar
minimum permitted at idle spe	eed 0.7 bar
Oil temp (normal)	90-110 ° C
Oil cleaner	Centrifugal
Oil filter	Paper/full flow
Oil cooler	Water cooled/full flow

Cooling system	
Coolant volume excl. radiator	24 dm3
Coolant volume incl. 1.5	
m2 radiator	68 dm3
Coolant temperature	90-95 ° C
Number of thermostats	1
Opening temperature	80/87 ° C

Electrical system	
Туре	1 pole, 24V DC
Starter, standard equipment	1 pole, 24V, 7KW
Alternator, standard equipmen	t 1 pole, 28V, 100A

Injection system	
Туре	Unit injectors, PDE
Governor	ECU
Fuel filter	Paper filter element, 6 micro
Fuel pre-filter with	Paper filter element, 10 micro
water separator	

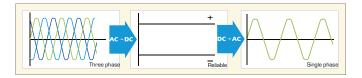
General installation	Prime power
Gross power	642 KW
	728 KVA
Heat rejection	
to coolant	243 KW
to exhaust gas	463 KW
to charge air	122 KW
to surrounding air	61 KW
Air consumption	45 kg/min
Air temperature	
before charge air cooler	208° C
after charge air cooler	49° C
Pressure in intake manifold	2.2 Bar
Fall of pressure, charge air cooler	O.15 Bar
Exhaust flow	47 kg/min
Exhaust temperature	554
Step load performance (according	65%
to class G2)	417 KW

Inlet System	
Permissible pressure drop in inta	ke system
with cleaned or new filter	30 mbar
with blocked(dirty) filter	65 mbar

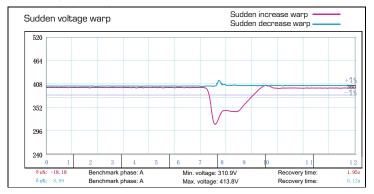


Alternator Specification

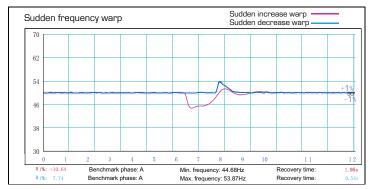
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc



Emergency voltage curve



Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
 Water Jacket Pre-heater Fuel heater 	 Winding Temp measuring Instrument Alternator Pre-heater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater Winding and bearing RTD 	 Tools with the machine Extended range fuel tank Bunded fuel tank 	 Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy	Lub oil system	Cooling System	Control Panel
Rental type CanopyTrailer	Oil Pre-heaterOil temp sensor	Front heat protection	 Remote control panel ATS Synchronizing controller Adjustable earth leakage relay



Control Panel

Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit.
- Comprehensive diagnostic message
- Automatic or manual start/stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements (50HZ/60HZ)
- Generator measurements (50HZ/60HZ)
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
 - Over-/under voltage
 - -Over-/under frequency
 - -Current/voltage asymmetry
 - -Over current/overload
- 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set-up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

Operation conditions

- Operation temp: -20 $^{\circ}$ C to + 70 $^{\circ}$ C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration : 5-25Hz, ± 1.6 mm
 - 5-100Hz, a=4g
- Shocks: a= 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
- Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs



AGG UK | AGG China | AGG USA | AGG UAE info@aggpower.co.uk | www.aggpower.co.uk



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