

Model: DE825D5

Powered by DEUTZ





■ Generator Specification

Service I	PRP(1)	ESP ₍₂₎
Power (kVA)	750	825
Power (kW)	600	660
Rated speed (r.p.m)	1500)
Standard voltage (V)	400/20	30V
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):

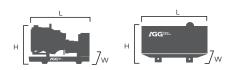
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	SP.	PR	P.	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	825	660	750	600	1147.8
400/230	825	660	750	600	1190.8
380/220	825	660	750	600	1253.5

Performand	e Data		
	Model	DE825D5	
En	igine brand	Deutz	
En	gine model	HC12V132ZL-LA G2A	
Spee	d control type	ECU	
	Phase	3	
Control system		Digital	
Starter motor voltage		12/24V	
Frequency		50HZ	
Engine speed (RPM)		1500	
	100% standby power	-	
Fuel	100% prime power	-	
Consumption (L/H)	75% prime power	-	
	50% prime power	-	

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)	4315mm	6058mm	
Width (W)	2020mm	2438mm	
Height (H)	2235mm	2591mm	
Net Weight	6868KG	12500KG	
Fuel Tank (L)	-	1000	

Note: This parameters allows for some acceptable deviations.



■ Engine Specification: HC12V132ZL-LA G2A

Basic technical data		
No. of cylinders	12	
Cylinder arrangement	V-from 90° angle	
Cycle	4 stroke	
Cylinder type	One-cylinder-one-head	
Displacement	23.812 L	
Bore	132 mm	
Stroke	145 mm	
Compression ratio	16.5:1	
Mean effective pressure	35.5bar	
Max.exhaust gas temperature	560℃	
Charge air temperature	220 ℃	
Fuel consumption	197g/KW•h	

Cooling system		
Water-pump flow	470 L/min	
Inter-cooler cooling power	220KW	
Coolant capacity(engine)	30L	
Heat carry off by coolant	360KW	
In&outlet coolant size	70mm	
Max.allowable operating temperature 103℃		
Fan	Exhaust type	
Fan connection	V-belt drive	
Fan diameter	1320mm	
Air volume of fan	19m³/s	
Fan power consumption	≤26KW	
Fan transmission ratio	0.76	

Engine Data	
Dry weight	1600 kg
No. of flywheel teeth	167
Engine support	Rigid
Battery voltage	24V
Starter rated power	9 KW
Generator capacity	55A

Fuel system	
Cylinder ignition sequence	1-8-5-10-3-7-6-11-2-9-4-12
Idle speed	$600\pm50\mathrm{rpm}$
Low-pressure pump oil	
load capacity	190L/h
Fuel filter element type	Disposable filter
No. of the fuel filter elemen	t 2

Lubrication system		
Min. oil pressure at 1500rpm		
(oil temperature 90°C)	≥3bar	
Min. oil pressure at 600rpm		
(oil temperature 90°C)	≥1bar	
Oil pan	Flywheel side	
Oil pan inclination	22.5°	
Initial oil filling	54L	

Cold starting systems	
Lowest ambient temperature of	
cold starting without assistant	
(standard configuration)	-17℃
Lowest ambient temperature of co	ld
starting with flame preheat plug	-32℃

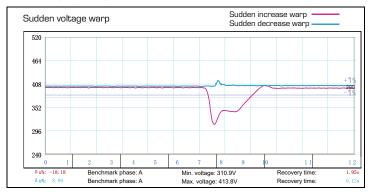


Alternator Specification

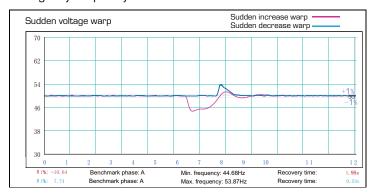
Alternator		
Number of phase	3	
Power factor (Cos Phi)	0.8	
Poles	4	
Winding Connections (standard)	Star-serie	
Terminals	12	
Insulation type	H class	
Winding Pitch	2/3	
IP rating	IP23	
Excitation system	Self-excited	
Bearing	Single bearing	
Coating Va	Vacuum impregnation	
Voltage regulator	A.V.R	
Couping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



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