



• Model: P825D5

Powered by PERKINS





Service I	PRP(1)	ESP(2)
Power (kVA)	750	825
Power (kW)	600	660
Rated speed (r.p.m)	150	0
Standard voltage (V)	400/2	30 V
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.

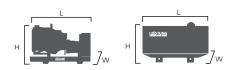
Powers	ES	P	PRI	-	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	825	660	750	600	1147.8
400/230	825	660	750	600	1190.8
380/220	825	660	750	600	1253.5



Performan	ce Data	
	Model	P825D5
En	igine brand	Perkins
En	gine model	4006-23TAG2A
Spee	d control type	Electronic
Phase		3
Cor	ntrol system	Digital
Starte	r motor voltage	24 V
F	requency	50 HZ
Engine speed (RPM)		1500
	100% standby power	176
Fuel	100% prime power	161
Consumption	75% prime power	122
(L/H)	50% prime power	83

Standard reference Conditions

Note: Standard reference condition $25^{\circ}C[77^{\circ}F]$ air inlet temp, 100m(328ft) A.S.L 30%relative humidity. Fuel consumption dat with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2



Dimension and Weight		
Dimension	Open	Silent
Length (L)	4260mm	6058mm
Width (W)	1720mm	2438mm
Height (H)	2230mm	2591mm
Net Weight	5986 KG	9986 KG
Fuel Tank (L)	-	-

Note: This parameters allows for some acceptable deviations.





■ Engine Specification: 4006-T23AG2A

Basic technical data	
No. of cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	4 stroke
Induction system	Turbocharged
Compression ratio	13.6:1
Bore	160mm
Stroke	190mm
Displacement	22.9L
All ratings certified to within	-
Estimated total weight	2524kg

Cooling system	
Total coolant capacity	
-with radiator	TBD
-without radiator	TBD
Maximum top tank temp	98℃
Thermostat operation range	71-85℃
Radiator face area	2.57 m²
Rows and material	3 row of brass tubes
Pressure cap setting	TBD
Fan diameter	1.2 mm
Drive ratio	0.78: 1
Number of blades	TBD

Fuel system	
Injection system	Direct
Fuel injection pump	TBD
Fuel atomiser	TBD
Nozzel opening pressure	TBD
Fuel lift pump type	Electronic
- flow/hour	TBD
- pressure	TBD
Maximum suction head:	
-1500 rev/min	2.5 m

Induction system	
Clean filter	1.2kpa
Dirty filter	3.7kpa
Air filter type	Dry-paper

Lubrication system	
Total lub capacity	62L
Sump minimum	45L
Sump maximum	53L
Maximum engine operating angle	es
-front up, front down, right side	TBD
or left side	
Lubricating oil pressure	
-Relief valve opens	620 kPa
- at maximum no-load speed	TBD
Oil consumption at full load	
as a % of fuel consumption	0.1%

Electrical system	
Туре	Insulated return
Alternator voltage	24 volts
Alternator output	70 amps
Starter motor voltage	24 volts
Starter motor power	9 kW

General installation	Prime power
Gross engine power	654kW
Net engine power	632kW
Combustion air flow	64m³/min
Exhaust gas temperature outlet	430°C
Energy to coolant	200kW
Energy to exhaust	456kW



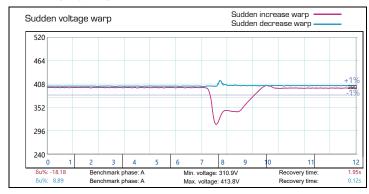


Alternator Specification

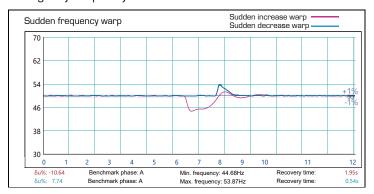
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	cuum impregnation
Voltage regulator	A.V.R
Couping	Flexible 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 °C to + 70 °C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration: 5-25Hz, ±1.6mm
 - 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



United Kingdom | Australia | China | Chile | Germany Hongkong | Indonesia | Malaysia | Russia | Singapore South Africa | Thailand | Vietnam

info@leistung-energie.com | www.leistung-energie.com

Unit 1804, South Bank Tower, 55 Upper Ground, London, United Kingdom SE1 9EY

All information in the document is substantially correct a the time of printing but may be subsequently altered by the company.

Distributed	h١
DISH IDULEU	υV