



• Model: P200D5

Powered by PERKINS





Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	180	200
Power (kW)	144	160
Rated speed (r.p.m)	15	500
Standard voltage (V)	400/	′230V
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):

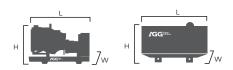
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	Р	PR	Р	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	200	160	180	144	278.2
400/230	200	160	180	144	288.7
380/220	200	160	180	144	303.9

Performanc	ce Data	
	Model	P200D5
Er	igine brand	Perkins
En	igine model	1106A-70TAG3
Spee	d control type	Mechanical
	Phase	3
Cor	ntrol system	Digital
Starte	r motor voltage	12V
F	requency	50HZ
Engin	e speed (RPM)	1500
	100% standby power	44.6
Fuel	100% prime power	41.6
Consumption (L/H)	75% prime power	31.8
(L/11)	50% prime power	20.1

Standard reference Conditions

Note: Standard reference condition $25^{\circ}C[77^{\circ}F]$ air inlet temp, 1000m(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)	2755mm	3600mm
Width (W)	800mm	1140mm
Height (H)	1565mm	2170mm
Net Weight	1675KG	2295KG
Fuel Tank (L)	310L	220L

Note: This parameters allows for some acceptable deviations.



■ Engine Specification: 1106A-70TAG3

Basic technical data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Induction system	Turbocharged
	and air charge cooled
Compression ratio	16:1
Bore	105mm
Stroke	135mm
Displacement	7.01L
All ratings certified to within	± 5%
Estimated total weight	788kg

Cooling system	
Total coolant capacity	
-with radiator	21L
-without radiator	TBD
Maximum top tank temp	110℃
Thermostat operation range	82-93℃
Radiator face area	O.351 m²
Rows and material	4 rows, aluminium
Pressure cap setting	100 kPa
Fan diameter	610 mm
Drive ratio	1.2 : 1
Number of blades	7

Fuel system	
Injection system	Mechanical
Fuel injection pump	DP210G
Priming pump type	Manual
Maximum priming time	90 seconds
Fuel lift pump type	Mechanical
- flow/hour	TBD
- pressure	TBD
Maximum suction head:	
-1500 rev/min	10 kPa

Induction system	
Clean filter	2kpa
Dirty filter	3kpa
Air filter type	paper element

Lubrication system	
Total lub capacity	16.5L
Sump minimum	12.4L
Sump maximum	14.9L
Maximum engine operating angles	
-front up, front down, right side	
or left side	25°
or left side Lubricating oil pressure	25°
	25° 430kPa
Lubricating oil pressure	
Lubricating oil pressure -Relief valve opens	430kPa

Electrical system	
Туре	A115i
Alternator voltage	12 volts
Alternator output	85 amps
Starter motor voltage	12 volts
Starter motor power	4.2 kw

General installation	Prime power
Gross engine power	163.9kW
Brake mean effective pressure	1856.9kPa
Combustion air flow	13.1m³/min
Exhaust gas temperature outlet	538°C
Energy to coolant	31.1kW
Energy to exhaust	128.1kW

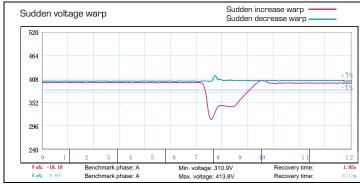


Alternator Specification

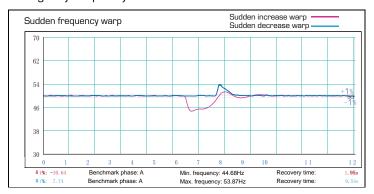
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standar	d) Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible 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
- $\bullet \ \ Mains \ measurements \ (\ 50HZ/60HZ)$
- 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 $^{\circ}$ C to + 80 $^{\circ}$ 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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