

• Model: P150D5

Powered by PERKINS





Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	135	150
Power (kW)	108	120
Rated speed (r.p.m)	150	00
Standard voltage (V)	400/2	230V
Rated at power factor(cos phi)	0.8	3





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):

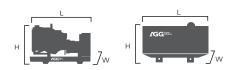
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	150	120	135	108	208.7
400/230	150	120	135	108	216.5
380/220	150	120	135	108	227.9

Performanc	ce Data	
Model		P150D5
Er	igine brand	Perkins
En	igine model	1106A-70TG1
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	32.9
Fuel	100% prime power	29.9
Consumption (L/H)	75% prime power	22.7
(∟/ □)	50% prime power	15.6

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)	2640mm	3400mm	
Width (W)	800mm	1140mm	
Height (H)	1520mm	1795mm	
Net Weight	1408KG	2020KG	
Fuel Tank (L)	310	220	

Note: This parameters allows for some acceptable deviations.



■ Engine Specification: 1106A-70TG1

Basic technical data	
No. of cylinders	6
Cylinder arrangement	In-line
Cycle	4 stroke
Induction system	Turbocharged
Compression ratio	18.2:1
Bore	105mm
Stroke	135mm
Displacement	7.01L
All ratings certified to within	± 3%
Speed variation at constant load	±0. 25%

Cooling system	
Total coolant capacity	
-with radiator	TBD
-without radiator	TBD
Maximum top tank temp	110℃
Thermostat operation range	82-93℃
Radiator face area	0.464 m²
Rows and material	2 rows, aluminium
Pressure cap setting	100 kPa
Fan diameter	558.8 mm
Drive ratio	1.43 : 1
Number of blades	7

Fuel system	
Injection system	Mechanical
Fuel injection pump	DPG
Fuel atomiser	TBD
Nozzel opening pressure	TBD
Fuel lift pump type	Mechanical
- flow/hour	TBD
- pressure	TBD
Maximum suction head:	
-1500 rev/min	10 kPa

Induction system	
Clean filter	3kpa
Dirty filter	5kpa
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° TBD
Lubricating oil pressure	
Lubricating oil pressure -Relief valve opens	TBD

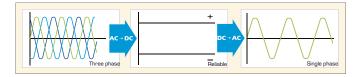
Electrical system	
Туре	8Si
Alternator voltage	12 volts
Alternator output	65 amps
Starter motor voltage	12 volts
Starter motor power	4.2 kw

Prime power
7.6m³/min
576° C
20.8m³/min
1421/min
TBD

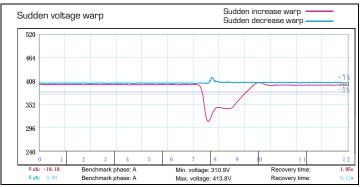


Alternator Specification

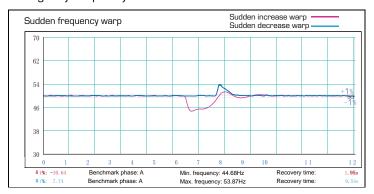
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible 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
- $\bullet \ \ Mains \ measurements \ (\ 50HZ/60HZ)$
- 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=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



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