

• Model: P1375D5

Powered by PERKINS





Generator Specification

Service	PRP(1)	ESP ₍₂₎
Power (kVA)	1250	1375
Power (kW)	1000	1100
Rated speed (r.p.m)	15	00
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):

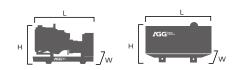
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ESF)	PRI	-	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	1375	1100	1250	1000	1913.0
400/230	1375	1100	1250	1000	1984.7
380/220	1375	1100	1250	1000	2089.2

Performance Data		
Model		P1375D5
Er	igine brand	Perkins
Er	gine model	4012-46TWG2A
Spee	d control type	Electronic
Phase		3
Control system		Digital
Starter motor voltage		24V
Frequency		50HZ
Engine speed (RPM)		1500
	100% standby power	288
Fuel	100% prime power	259
Consumption (L/H)	75% prime power	196
	50% prime power	143

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)	4720mm	6058mm	
Width (W)	2190mm	2438mm	
Height (H)	2425mm	2591mm	
Net Weight	9193KG	13193KG	
Fuel Tank (L)	-	-	

Note: This parameters allows for some acceptable deviations.



■ Engine Specification: 4012-46TWG2A

Basic technical data	
No. of cylinders	12
Cylinder arrangement	Vee 60°
Cycle	4 stroke, compression ignition
Induction system	Turbocharged
Compression ratio	13:1
Bore	160mm
Stroke	190mm
Displacement	45.5L
All ratings certified to	within TBD
Estimated total weight	5540kg

Cooling system	
Total coolant capacity	123L
Coolant flow	1000 I/min
Coolant immersion heater capacity	2 X 4 kW
Maximum top tank temp	98℃
Thermostat operation range	71-85℃
Radiator face area	2.63 m²
Number of rows and material	226
Pressure cap setting	69 kPa
Fan diameter	1400 mm
Drive ratio	1:1
Number of blades	12

Fuel system	
Injection system	Direct
Fuel injection pump	Delphi
Fuel Injector type	Unit injector
Fuel lift pump type	Gerotor
Fuel filter spacing	10 microns
Governing type	Electronic
Governing	to ISO 8528-5 2005
Delivery flow	1020 l/h
Delivery pressure	300 kPa

Induction system	
Clean filter	2.Okpa
Dirty filter	4.Okpa
Air filter type	Cylindrical paper pleat

Lubrication system	
Total lub capacity	177L
Sump minimum	136L
Sump maximum	159L
Oil temperature at normal	
operating conditions	95℃
-maximum continuous operation	105℃
Lubricating oil pressure	
-Relief valve opens	400 kPa
- at maximum no-load speed	TBD
Oil consumption at full load	
as a % of fuel consumption	TBD

Electrical system	
Туре	Insulated return
Alternator voltage	24 volts
Alternator output	40 amps
Starter type	(axial)electric
Starter motor power	16.4 kW

Prime power
1106kW
1055kW
109m³/min
430°C
387kW
914kW

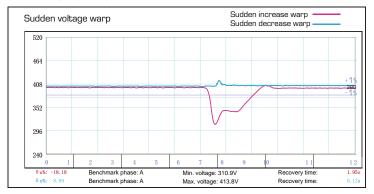


Alternator Specification

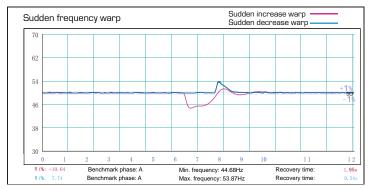
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standar	d) Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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