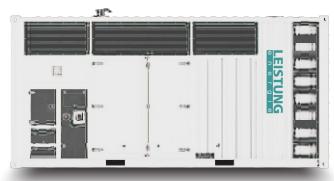




• Model: P1100D5

Powered by PERKINS





Service	PRP(1)	ESP(2)
Power (kVA)	1000	1100
Power (kW)	800	800
Rated speed (r.p.m)	150	00
Standard voltage (V)	400/2	30 V
Rated at power factor(cos phi)	0.8	 B





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.

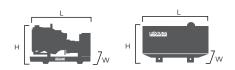
Powers	ESI	P	PRF	•	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	1100	880	1000	800	1530.4
400/230	1100	880	1000	800	1587.8
380/220	1100	880	1000	800	1671.3



Performan	ce Data	
	Model	P1100D5
Er	igine brand	Perkins
En	igine model	4008TAG2
Spee	d control type	Electronic
Phase		3
Control system		Digital
Starter motor voltage		24 V
Frequency		50 HZ
Engin	e speed (RPM)	1500
	100% standby power	248
Fuel	100% prime power	220
Consumption	75% prime power	160
(L/H)	50% prime power	108

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)	4840mm	6058mm
Width (W)	2135mm	2438mm
Height (H)	2480mm	2591mm
Net Weight	7552 KG	-
Fuel Tank (L)	2000 L	-

Note: This parameters allows for some acceptable deviations.





■ Engine Specification: 4008TAG2

Basic technical data	
No. of cylinders	8
Cylinder arrangement	In-line
Cycle	4 stroke, compression ignition
Induction system	Turbocharged
Compression ratio	13.6:1
Bore	160mm
Stroke	190mm
Displacement	30.6L
Firing order	1, 4, 7, 6, 8, 5, 2, 3
Cylinder 1	furthest from flywheel
Weight	4270 kg
·	

Cooling system	
Total coolant capacity	
Engine only	48 litres
-tropical	149 litres
temperate	143 litres
Pressure cap setting	69 kPa
Fan	Incorporated in radiator
Diameter	
tropical	1400 mm (pusher)
temperate	1214 mm (pusher)

Fuel system	
Type of injection system	Direct injection
Fuel injection pump	Combined unit injector
Delivery/hour at 1500 rev/min	660 litres
Heat retained in fuel to tank	4,5 kW
Temperature of fuel at	
lift pump to be less than	58 °C
Fuel lift pump pressure	300 kPa
Fuel lift pump maximum suction he	ead 2.5 m
Fuel filter spacing	10 microns
Governor type	Electronic
Torque at the governor output sha	oft 0,917 kgm
Static injection timing	See engine number plate

Induction system	
Clean filter	127 mm H20
Dirty filter 380 mm H20	
Air filter type	cylinder paper pleat

Lubricating oil pressure	
Lubricating oil capacity	
sump maximum	153 litres
sump minimum	127 litres
Lubricating oil temperature	
maximum to bearings	105 °C
Lubricating oil pressure	
- at 80 °C temperature to	
bearing gallery (minimum)	0,34 MPa

Electrical system	
Туре	Insulated return
Alternator	24 volts with integral regulator
Starter motor	24 volts
Starter motor power	8,2 kW
Number of teeth on flyv	vheel 190
Number of teeth on sta	irter motor 12

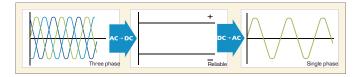
Designation	Prime power
Gross engine power	899kWb
Fan power	27kWm
Net engine power	872kWm
BMEP gross	23,2bar
Combustion air flow	75m³/min
Boost pressure ratio	3,70°C
Mechanical efficiency	92%
Overall thermal efficiency	41%
Friction power and pumping losses	80kWm
Mean piston speed	9,5m/s
Engine coolant flow (minimum)	10,0l/s



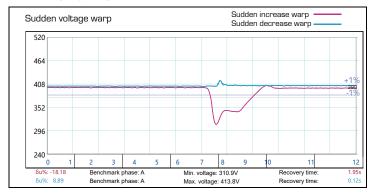


Alternator Specification

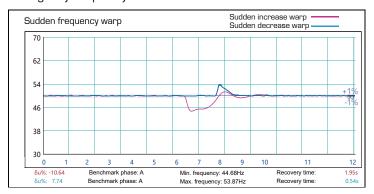
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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



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

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