

Model: P100005

Powered by PERKINS





Generator Specification

Service	PRP(1)	ESP ₍₂₎	
Power (kVA)	900	1000	
Power (kW)	720	800	
Rated speed (r.p.m)	15	500	
Standard voltage (V)	400/	400/230V	
Rated at power factor(cos phi) (1.8	



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):

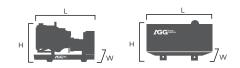
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ESF	נ	PR	Р	Standby
Voltage (V)	KVA	ĸw	KVA	KW	Amps
415/240	1000	800	900	720	1391.2
400/230	1000	800	900	720	1443.4
380/220	1000	800	900	720	1519.4

Performance Data			
Model		P1000D5	
Engine brand		Perkins	
Engine model		4008-30TAG2	
Speed control type		Electronic	
Phase		3	
Control system		Digital	
Starter motor voltage		24V	
Frequency		50HZ	
Engin	e speed (RPM)	1500	
Fuel Consumption (L/H)	100% standby power	218	
	100% prime power	195	
	75% prime power	143	
	50% prime power	98	

Standard reference Conditions

Note: Standard reference condition 25°C[77°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) 4675mm 5900mm Width (W) 2050mm 2240mm Height (H) 2210mm 2505mm Net Weight 7400KG 12600KG Fuel Tank (L) 900

Note: This parameters allows for some acceptable deviations.



Engine Specification: 4008-30TAG2

Basic technical data	
No. of cylinders	8
Cylinder arrangement	In-line
Cycle	4 stroke, compression ignition
Induction system	Turbocharged
Compression ratio	13.1:1
Bore	160mm
Stroke	190mm
Displacement	30.5L
All ratings certified to v	vithin TBD
Speed variation at cons	stant load TBD

Flywheel and housing
Flywheel to SAE J620 Size 18
SAE O flywheel housing

Electrical equipment

24V starter motor and 24V alternator with integral regulator and DC output Turbine inlet temperature shutdown switch

High coolant temperature shutdown switch

Low oil pressure shutdown switches

Cooling system

Triple thermostats

System designed for ambient temperatures

of up to 50°C

Air inlet system

Mounted air filter and turbocharger

Fuel system

Direct fuel injection system with fuel lift pump

Digital governing to ISO 8528-5 Class G2 with

isochronous capability

Full flow spin-on filters

Lubrication system

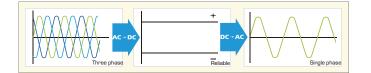
Wet full aluminium sump with filler and dipstick

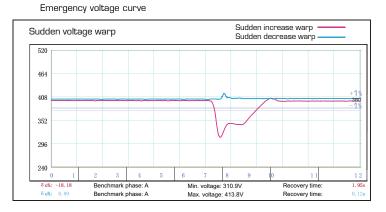
Full flow spin-on oil filters



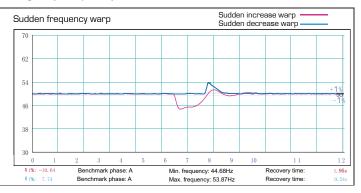
Alternator Specification

3	
0.8	
4	
d) Star-serie	
12	
H class	
2/3	
IP23	
Self-excited	
Single bearing	
Vacuum impregnation	
A.V.R	
Flexible disc	





Emergency frequency curve



Options

Engine	Alternator	Generator Sets	Fuel System
Water Jacket Pre-heaterFuel 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 Canopy Trailer 	 Oil Pre-heater Oil 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



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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, ± 1.6 mm
- 5-100Hz, a=4g • Shocks: a= 500m/s²
- anucks: a= aUUM/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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