

# • Model: P10005

**Powered by PERKINS** 



## Generator Specification

Service F		ESP(2)
Power (kVA)	900	1000
Power (kW)	720	800
Rated speed ( r.p.m)	1500	
Standard voltage (V)	400/23	O V
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.

ESI	Р	PRI	P	Standby
KVA	KW	KVA	ĸw	Amps
1000	800	900	720	1391.2
1000	800	900	720	1443.4
1000	800	900	720	1519.4
	KVA 1000 1000	1000 800 1000 800	KVA         KW         KVA           1000         800         900           1000         800         900	KVA         KW         KVA         KW           1000         800         900         720           1000         800         900         720



Performan	ce Data		
	Model	P1000D5	
Er	igine brand	Perkins	
En	igine model	4008TAG1A	
Spee	d control type	Electronic	
Phase		3	
Control system		Digital	
Starter motor voltage		24 V	
Frequency		50 HZ	
Engine speed (RPM)		1500	
	100% standby power	218	
Fuel Consumption (L/H)	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, 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) 4675mm 6058mm Width (W) 2050mm 2438mm Height (H) 2591mm 2210mm Net Weight \_ Fuel Tank (L) \_ \_

Note: This parameters allows for some acceptable deviations.

**Cooling system** Total coolant capacity

Maximum top tank temp

Radiator face area

Rows and material

Pressure cap setting

to coolant pump flow

-1500 rev/min

Shutdown switch setting

above engine crank centre line

Thermostat operation range

tropical

temperate

# Engine Specification: 4008TAG1A

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
All ratings certified to	within TBD
Estimated total weigh	4270kg

149 L

143 L

TBD

71-85 °C

TBD

TBD

69 kPa

101 °C rising

20 kPa

7 m

2.5 m

Induction system	
Clean filter	1.2kpa
Dirty filter	3.7kpa
Air filter type	5001-00-00 MF&T

Lubrication system	
Total lub capacity	TBD
Sump minimum	127L
Sump maximum	153L
Lubricating oil temperature	
maximum to bearings	105 °C
Lubricating oil pressure	
-Relief valve opens	TBD
- 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 motor voltage	24 volts
Starter motor power	8.2 kW
5	2

Fuel system	
Injection system	Direct
Fuel injection pump	Combined unit injector
Fuel atomiser	TBD
Nozzel opening pressure	TBD
Fuel lift pump type	Electronic
- flow/hour	TBD
- pressure	TBD
Maximum suction head:	

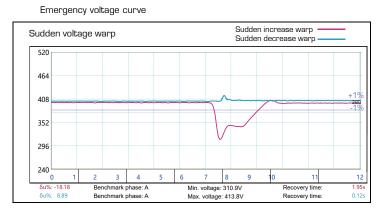
General installation	Prime power
Gross engine power	805kW
Net engine power	602kW
Combustion air flow	69,4m³/min
Exhaust gas temperature	425°C
Energy to coolant	245kW
Energy to exhaust	492kW



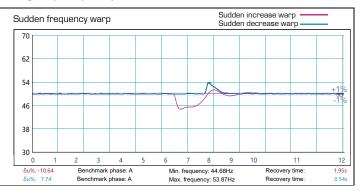
# Alternator Specification

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 frequency curve



# Options

Engine	Alternator	Generator Sets	Fuel System
<ul> <li>Water Jacket Pre-heater</li> <li>Fuel heater</li> </ul>	<ul> <li>Winding Temp measuring Instrument</li> <li>Alternator Pre-heater</li> <li>PMG</li> <li>Anti-damp and anti-corrosion treatment</li> <li>Anti-condensation heater</li> <li>Winding and bearing RTD</li> </ul>	<ul> <li>Tools with the machine</li> <li>Extended range fuel tank</li> <li>Bunded fuel tank</li> </ul>	<ul> <li>Low fuel level alarm</li> <li>Automatic fuel feeding system</li> <li>Fuel T-valves</li> </ul>
Canopy	Lub oil system	Cooling System	Control Panel
<ul><li>Rental type Canopy</li><li>Trailer</li></ul>	<ul><li>Oil Pre-heater</li><li>Oil temp sensor</li></ul>	<ul> <li>Front heat protection</li> </ul>	<ul> <li>Remote control panel</li> <li>ATS</li> <li>Synchronizing controller</li> <li>Adjustable earth leakage relay</li> </ul>



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

### 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 ℃ to + 80 ℃
- Operating humidity: 95% w/o condensation
  - Vibration : 5-25Hz, ±1.6mm 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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