



• Model: P150C

Powered by PERKINS





■ Generator Specification

Service P	PRP(1)	ESP ₍₂₎
Power (kVA) 1	350	1500
Power (kW) 1	080	1200
Rated speed (r.p.m)	1500)
Standard voltage (V)	400/23	0 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):

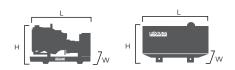
According to ISO 8528-1, It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Powers	ES	P	PRI	P	Standby
Voltage (V)	KVA	KW	KVA	KW	Amps
415/240	1500	1200	1350	1080	2086.9
400/230	1500	1200	1350	1080	2165.1
380/220	1500	1200	1350	1080	2279.1

Performance Data		
Model		P1500D5
Er	igine brand	Perkins
En	igine model	4012-46TWG3A
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	318
Fuel	100% prime power	283
Consumption	75% prime power	213
(L/H)	50% prime power	151

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)	4920mm	12192mm
Width (W)	2170mm	2438mm
Height (H)	2425mm	2896mm
Net Weight	10500 KG	20320 KG
Fuel Tank (L)	-	-

Note: This parameters allows for some acceptable deviations.





■ Engine Specification: 4012-46TWG3A

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	45.8L
All ratings certified to	within TBD
Speed variation at cons	stant load TBD

Cooling system	
Total coolant capacity	
-with radiator	TBD
-without radiator	TBD
Maximum top tank temp	98℃
Thermostat operation range	71-85℃
Radiator face area	2.6 m²
Rows and material	7
Pressure cap setting	70 kPa
Fan diameter	1400 mm
Drive ratio	1:1
Number of blades	12

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:	
-1500 rev/min	TBD

Induction system	
Clean filter	2.Okpa
Dirty filter	4.Okpa
Air filter type	Heavy duty axial flowl

Lubrication system	
Total lub capacity	TBD
Sump minimum	136L
Sump maximum	159L
Maximum engine operating angles	
-front up, front down, right side	TBD
or left side	
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	12 volts
Starter motor power	16.4 kW

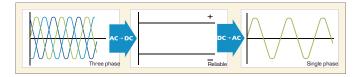
General installation	Prime power
Combustion air flow	108 m³/min
Exhaust gas temp	474°C
Exhaust gas flow, wet	240 m³/min
Engine coolant flow	9481/min
Cooling fan air flow	TBD



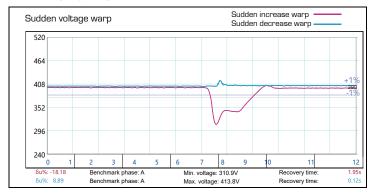


Alternator Specification

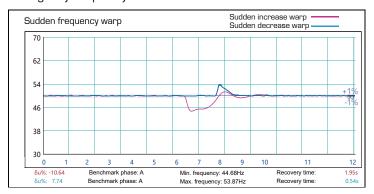
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating Va	acuum impregnation
Voltage regulator	A.V.R
Couping	Flexible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