GPP450S5 | GPP450D5

Powered by Perkins

Genlitec®
Power & Lighting Solutions

Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	450	500
Power (KW)	360	400
Rated speed	1500RPM	
Standard voltage	220/380V	
Power factor	0.8	
Phase	3	

ISO CE

GENLITEC 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
- **GPP450S5: Silent Type**
- **GPP450D5: Open Type**

(1) PRP (Prime Power)

According to ISO 8528-1, 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 manufactures. No overload capability is available.

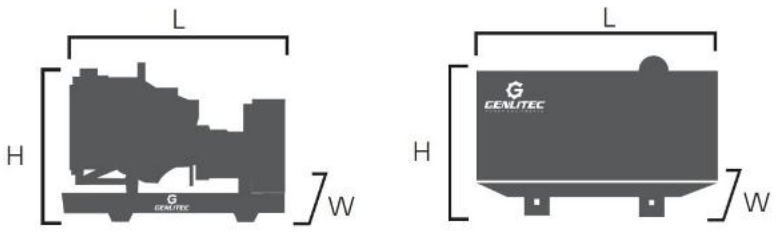
Voltage (V)	ESP		PRP		Current
	KVA	KW	KVA	KW	Amps
220/380	500	400	450	360	683.7
230/400	500	400	450	360	649.5
240/415	500	400	450	360	626.0

Performance Data		
Model		GPP450S5 | GPP450D5
Engine brand		**PERKINS**
Engine model		2506C-E15TAG1
Speed control type		Electronic
Alternator brand		**GENLITEC**
Alternator model		S314G360
Control system		**DEEPSEA** DSE6120 MKII
Starter motor voltage		24V
Frequency		50Hz
Fuel Cons.	100% Prime Load	99 L/hrs
	75% Prime Load	73 L/hrs
	50% Prime Load	51 L/hrs
	Fuel tank volume	680 Liters

Standard Reference Conditions

Note: Standard reference condition 25°C (77°F) air inlet temp. 100m (328ft) A.S.L 30% relative humidity. Fuel consumption date with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998 Class A2

Dimension & Weight



Dimension	Open type	Silent type
Length (L)	3730mm	4750mm
Width (W)	1155mm	1450mm
Height (H)	2005mm	2500mm
Net Weight	3600kg	4545kg

Note: This parameter allows for some acceptable deviations.

GENLITEC POWER has the right to modify any feature without prior notice, Weights and dimensions based on standard products. Illustrations may include optional equipment. Technical data described in this document correspond to the available information at the moment of printing. The illustrations and images are indicative and may not coincide in their entirety with the product.

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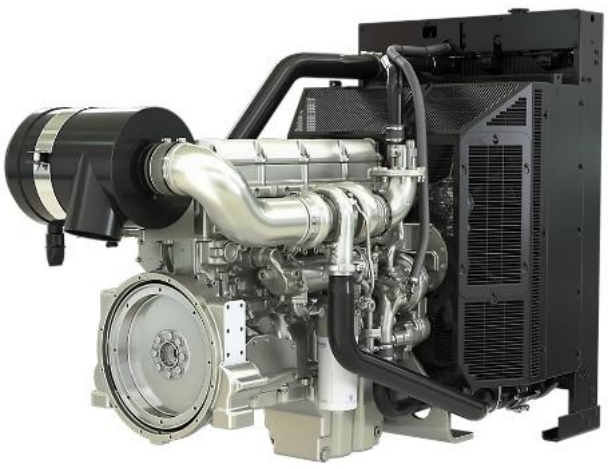
Engine Specification



MODEL: PERKINS 2506C-E15TAG1	
Cylinder number	6
Aspiration system	Turbo, air to air charge cooled
Cooling method	Liquid cooled
Governor type	Electronic
Bore x Stroke (mm)	137 x 171
Compression ratio	16.0:1
Rated speed (RPM)	1500
Displacement (L)	15.2
Rated power (KW)	412
Standby power (KW)	451
Oil consumption (g/kw.h)	/
Coolant capacity (L)	58
Oil capacity (L)	62
Combustion system	Direct injection
Starter motor capacity	DC 24V

Alternator Specification

MODEL: GENLITEC S314G360	
Number of phase	3
Rated power (KW/KVA)	360/450
Frequency (Hz)	50
Power factor (Cos Phi)	0.8
Poles	4
Temp. rise	125K
Terminals	6 (12-lead for option)
Insulation type	H class
Ambient temp.	40℃
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Coupling	Flexible disc

Standard Supply Scope

- Industrial exhaust silencer
- Maintenance free battery
- Water cooling radiator
- A.V.R
- Flexible pipes
- Battery wires
- Wiring diagram
- Build-in based fuel tank
- Float Battery charger
- Manual books
- Emergency stop button
- Base frame
- Digital control panel
- Main circuit breaker

Optional Supply Scope

Engine	Alternator	Generator Sets	Control Panel
○ Water jacket pre-heater	○ Anti-condensation heater	○ Extended fuel tank 24h/36h/72h	○ Remote control system
○ Lubrication oil pre-heater	○ PMG	○ Galvanized steel enclosure	○ ATS panel
○ Battery isolator	○ AREP		○ Synchronization system
	○ **STAMFORD** alternator		
	○ **LEROY SOMER** alternator		

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Control Panel

Configuration
● Emergency stop button
● Protection MCB (Main circuit breaker)
● Float battery charger
● ATS connection
● AMF digital control module
● Fuel level meter
● Controller power switch
● Alarm buzzer

Features
● Multiple display languages
● Automatic transfer between mains and generator power
● 3-phase mains and generator voltage monitoring
● Generator current monitoring and protection
● Event log for 10 events and engine-hours counter
● 6 digital inputs and 3 analog sender inputs
● Six outputs; configuration depends on the engine version
● Three phase generator protections
- Over / under voltage
- Over / under frequency
- Current / voltage asymmetry
- Over current / overload
● Three phase AMF function
- Over / under voltage
- Loss of phase detection function
● Emergency start function
● IP65 rating with rubber-ring gasket

Control Module Model: DEEPSEA DSE6120 MKII	
Display	Large back-lit text display
Generator & Mains (Utility) Voltage Range	15 V to 415 V AC (Ph to N) 26 V to 719 V AC (Ph to Ph)
Frequency range	3.5 Hz to 75 Hz
Analogue inputs A to F	Negative switching
AMF function	Yes
AC System	1P2W / 2P3W / 3P3W / 3P4W
Alternator frequency	50/60Hz
Monitor interface	USB
Programmable interface	USB
DC supply	DC 8-35V
Operating temp.	-30 ~ +70℃

Control Module Certified

Controller Module Options

COMAP	SMARTGEN	DEEPSEA
AMF25	HGM6120N	DSE7320 MKII

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