

# Model: GPP300D5 | GPP300S5

Powered by PERKINS 1506A-E88TAG5



## Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	300	330
Power (KW)	240	264
Rated speed	1500RPM	
Standard voltage	415/240V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPP300D5   GPP300S5	
Engine brand	PERKINS	
Engine model	1506A-E88TAG5	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S314G250	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	50Hz	
Fuel Consumption (L/H)	110% Prime Load	73
	100% Prime Load	65
	75% Prime Load	48
	50% Prime Load	33



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

### • GPP300D5: OPEN TYPE; GPP300S5: SILENT 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)

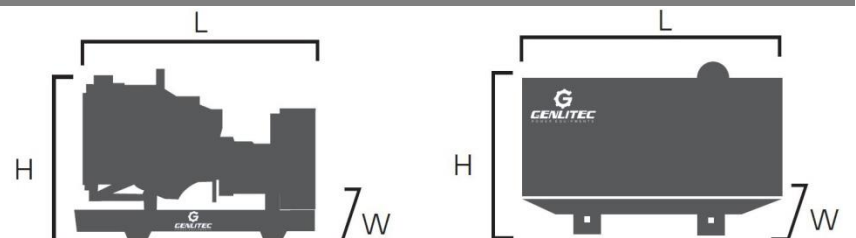
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	ESP		PRP		Current Amps
	KVA	KW	KVA	KW	
415/240	330	264	300	240	417.4
400/230	330	264	300	240	433.0
380/220	330	264	300	240	455.8

#### 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

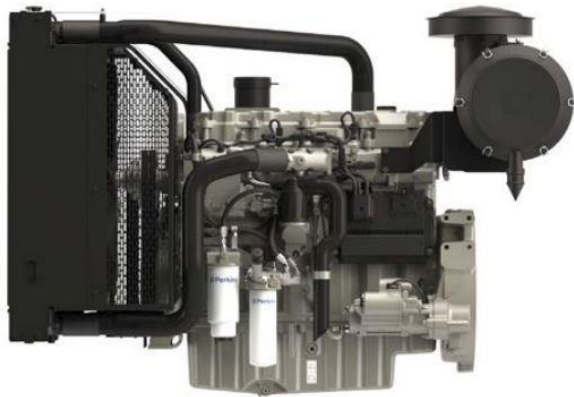
#### Dimension & Weight



Dimension	Open type	Silent type
Length (L)	2950mm	3590mm
Width (W)	1350mm	1350mm
Height (H)	1700mm	2150mm
Net Weight	2950kg	3750kg

Note: This parameters allows for some acceptable deviations.

■ **Engine Specification**



MODEL: PERKINS 1506A-E88TAG5	
Cylinder number	6
Aspiration system	Turbocharged aftercooled
Cooling method	Water cooled
Combustion system	Indirect injection
Bore x Stroke (mm)	112x149
Compression ratio	16.1:1
Rated speed (RPM)	1500
Displacement (L)	8.8
Rated power (KW)	267
Standby power (KW)	293
Fuel injection pump	MEUI
Coolant capacity (L)	51.4
Oil capacity (L)	41
Charger Alternator capacity	24V – 45A
Starter motor capacity	DC 24V

■ **Alternator Specification**



MODEL: GENLITEC S314G250	
Number of phase	3
Rated power (KW/KVA)	250/313
Frequency (Hz)	50
Power factor (Cos Phi)	0.8
Poles	4
Temp. rise	125K
Terminals	12
Insulation type	H class
Ambient temp.	40°C
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
- Tool kits
- Emergency stop button
- Base frame
- Digital control panel
- Main circuit breaker

■ **Optional Supply Scope**

Engine	Alternator	Generator Sets	Control Panel
<ul style="list-style-type: none"> <li>○ Water jacket pre-heater</li> <li>○ Lubrication oil pre-heater</li> <li>○ Battery isolator</li> </ul>	<ul style="list-style-type: none"> <li>○ Anti-condensation heater</li> <li>○ PMG</li> </ul>	<ul style="list-style-type: none"> <li>○ Extended fuel tank 12h/24h/72h</li> <li>○ Soundproof canopy</li> <li>○ Trailer mounted</li> </ul>	<ul style="list-style-type: none"> <li>○ Remote control system</li> <li>○ Build-in/External ATS</li> <li>○ Synchronizing System</li> <li>○ Power output sockets</li> </ul>

■ **Warranty Period**

- **PERKINS ENGINE:** Global warranty of 12 months or 1000 working hours.
- **STAMFORD ALTERNATOR:** Global warranty of 12 months or 1000 working hours.
- **GENLITEC DIESEL GENERATOR SET:** 12 months or 1000 working hours with free cost of replacement spare parts.

■ 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**

- Chinese, English, Spanish, Turkish, Russian & French language
- Three phase generator monitoring
- Automatic or manual start/stop of the gensets
- Push buttons for simple control & operation
- Generator measurements (50Hz/60Hz)
- Precision collect & display parameters about ENGINE
- Comprehensive shutdown or warning on fault condition
- 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
- IP55 waterproof with rubber-ring gasket

**Control Module Model: SMARTGEN HGM6120N**

Display	LCD (132 x 64)
Operation panel	Silicon rubber
Digital input	5
Relay output	6
Analogue input	3
AMF	Yes
AC System	1P2W / 2P3W / 3P3W / 3P4W
Alternator voltage	15-360V (ph-N)
Alternator frequency	50/60Hz
KW/Amp Detecting & Display	Yes
Monitor interface	USB
Programmable interface	USB
DC supply	DC 8-35V
Operating temp.	-25 ~ +70°C

■ Controller Module Options

COMAP	DEESEA	DEESEA
AMF25	DSE6020	DSE7320
		