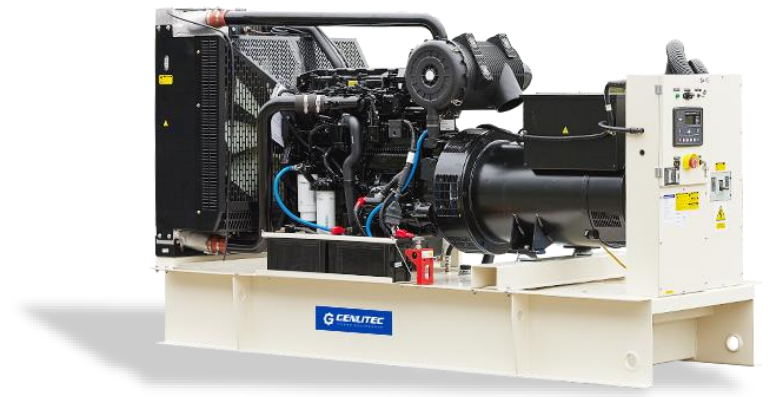


Model: GPP45D5 | GPP45S5

Powered by PERKINS



Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	45	50
Power (KW)	36	740
Rated speed	1500RPM	
Standard voltage	400/230V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPP45D5 GPP45S5	
Engine brand	PERKINS	
Engine model	1103A-33TG1	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S224G36	
Control system	SMARTGEN HGM6110N	
Starter motor voltage	12V	
Frequency	50Hz	
Fuel Consumption (L/H)	100% Prime Load	10.8
	75% Prime Load	8.23
	50% Prime Load	5.38
	25% Prime Load	3.49



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

• GPP45D5: OPEN TYPE; GPP45S5: 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)

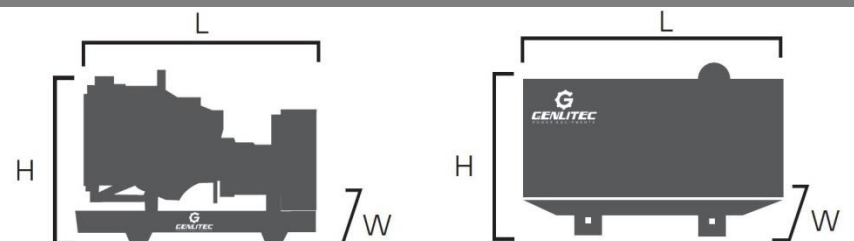
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	50	40	45	36	62.6
400/230	50	40	45	36	65
380/220	50	40	45	36	68.4

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)	1850mm	2450mm
Width (W)	750mm	1080mm
Height (H)	1250mm	1450mm
Net Weight	850kg	1250kg

Note: This parameters allows for some acceptable deviations.

■ **Engine Specification**



MODEL: PERKINS 1103A-33TG1

Cylinder number	3
Aspiration system	Turbocharged
Cooling method	Water cooled
Combustion system	Indirect injection
Bore x Stroke (mm)	105x127
Compression ratio	17.25:1
Rated speed (RPM)	1500
Displacement (L)	3.3
Rated power (KW)	42.2
Standby power (KW)	46.5
Governor type	Electronic
Coolant capacity (L)	10.2
Oil capacity (L)	7.9
Charger Alternator capacity	12V
Starter motor capacity	DC 12V

■ **Alternator Specification**



MODEL: GENLITEC S224G36

Number of phase	3
Rated power (KW/KVA)	36/45
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"> ○ Water jacket pre-heater ○ Lubrication oil pre-heater ○ Battery isolator 	<ul style="list-style-type: none"> ○ Anti-condensation heater ○ PMG 	<ul style="list-style-type: none"> ○ Extended fuel tank 12h/24h/72h ○ Soundproof canopy ○ Trailer mounted 	<ul style="list-style-type: none"> ○ Remote control system ○ Build-in/External ATS ○ Synchronizing System ○ Power output sockets

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
● 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 HGM6110N	
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	COMAP	DEEPSEA
AMF25	DSE6020	DSE7320
		

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All information in the document is substantially correct at the time of printing
 But may be subsequently altered by the company.