

Model: GPP650D5 | GPP650S5

Powered by PERKINS



Service	PRP(1)	ESP(2)
Power (KVA)	650	715
Power (KW)	520	572
Rated speed	1500RPM	
Standard voltage	400/230V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPP650D5 GPP650S5	
Engine brand	PERKINS	
Engine model	2806A-E18TAG2	
Speed control type	Electronic	
Alternator brand	STAMFORD GENLITEC	
Alternator model	HCI544F S354G520	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	50Hz	
Fuel Consumption (L/H)	100% Prime Load	132
	75% Prime Load	97
	50% Prime Load	66
	25% 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
- **GPP650D5: OPEN TYPE; GPP650S5: 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)

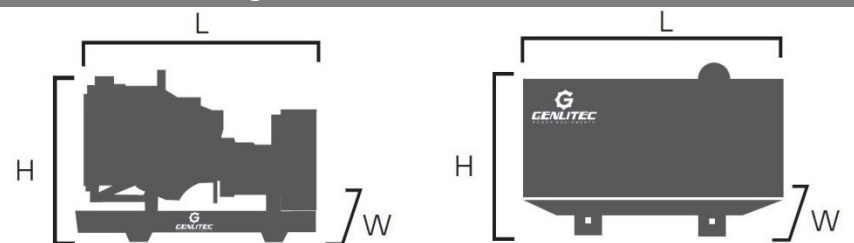
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	715	572	650	520	869.5
400/230	715	572	650	520	902.1
380/220	715	572	650	520	949.6

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

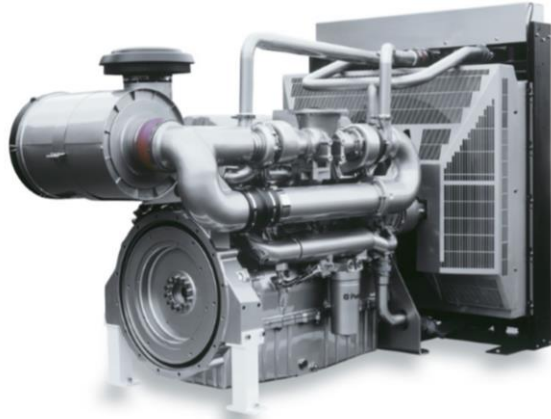
Dimension & Weight



Dimension	Open type	Silent type
Length (L)	3500mm	4700mm
Width (W)	1530mm	2050mm
Height (H)	2140mm	2500mm
Net Weight	3800kg	/

Note: This parameters allows for some acceptable deviations.

■ **Engine Specification**



MODEL: PERKINS 2806A-E18TAG2	
Cylinder number	6 in-line
Aspiration system	Turbocharged
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	145x183
Compression ratio	14.5:1
Rated speed (RPM)	1500
Displacement (L)	18.1
Rated power (KW)	565
Standby power (KW)	609
Oil consumption (g/kw.h)	≤4
Coolant capacity (L)	61
Oil pan capacity (L)	62
Fuel injection	Direct injection
Starter motor capacity	DC 24V

■ **Alternator Specification**



MODEL: STAMFORD HCI544F GENLITEC S354G520	
Number of phase	3
Rated power (KW/KVA)	520/650
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
- Flexible pipes
- Float Battery charger
- Base frame
- Maintenance free battery
- Battery wires
- Manual books
- Digital control panel
- Water cooling radiator
- Wiring diagram
- Tool kits
- Main circuit breaker
- A.V.R
- Build-in based fuel tank
- Emergency stop button

■ **Optional Supply Scope**

Engine	Alternator	Generator Sets	Control Panel
○ Water jacket pre-heater	○ Anti-condensation heater	○ Extended fuel tank 12h/24h/48h	○ Remote control system
○ Lubrication oil pre-heater	○ PMG	○ Soundproof canopy	○ Build-in/External ATS
○ Battery isolator	○ LEROY SOMER alternator	○ 20GP containerized canopy	○ Synchronizing System
	○ GENLITEC alternator		○ 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 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	DEEPSEA	DEEPSEA
AMF25	DSE6020	DSE7320
		