

## ■ Model: **GPC113D5** | **GPC113S5**

Powered by CUMMINS



### ■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	113	125
Power (KW)	90	100
Rated speed	1500RPM	
Standard voltage	380/220V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPC113D5   GPC113S5	
Engine brand	CUMMINS	
Engine model	6BTA5.9-G2	
Speed control type	Electronic	
Alternator brand	STAMFORD   GENLITEC	
Alternator model	UCI274D   S274G100	
Control system	SMARTGEN HGM6110N	
Starter motor voltage	24V	
Frequency	50Hz	
Fuel Consumption (L/H)	100% Prime Load	27
	75% Prime Load	20
	50% Prime Load	14
	25% Prime Load	8



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
- **GPC110D5: OPEN TYPE; GPC110S5: 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)

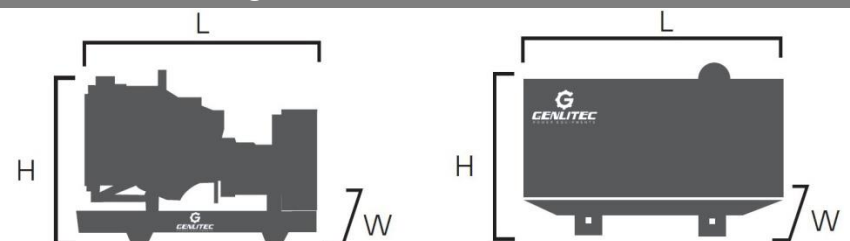
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	PRP		ESP		Current Amps
	KVA	KW	KVA	KW	
415/240	113	90	125	100	153
400/230	113	90	125	100	159
380/220	113	90	125	100	167

#### 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

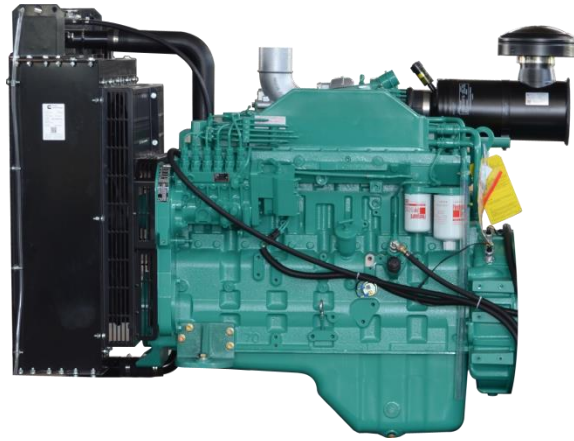
#### Dimension & Weight



Dimension	Open type	Silent type
Length (L)	2200mm	2750mm
Width (W)	1000mm	1200mm
Height (H)	1450mm	1700mm
Net Weight	1150kg	1650kg

Note: This parameters allows for some acceptable deviations.

## ■ Engine Specification



### MODEL: CUMMINS 6BTA5.9-G2

Cylinder number	6
Aspiration system	Turbo, after-cooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	105x 120
Compression ratio	17.3:1
Rated speed (RPM)	1500
Displacement (L)	5.9
Rated power (KW)	106
Standby power (KW)	116
Oil consumption (g/kw.h)	≤4
Fuel system	AD type fuel pump
Oil capacity (L)	16.3
Coolant capacity (L)	29
Starter motor capacity	DC 24V- 40A

## ■ Alternator Specification



### MODEL: STAMFORD UCI274D | GENLITC S274G90

Number of phase	3
Rated power (KW/KVA)	90/113
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
<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>

## 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 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

SMARTGEN	COMAP	DEEPSEA
HGM6120N	AMF25	DSE6020
		

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