



Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	150	165
Power (KW)	120	132
Rated speed	1500RPM	
Standard voltage	230/400V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPC150S5 GPC150D5	
Engine brand	CUMMINS	
Engine model	6BTAA5.9-G12	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S274G120	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	50Hz	
Fuel Consumption (L/H)	100% Prime Load	34
	75% Prime Load	26
	50% Prime Load	17
	25% Prime Load	10
Fuel Tank (L)		260



GENLITEC Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery directive
- 2014/30/EU Electromagnetic compatibility directive
- EN 12100:2010; EN ISO 8528-13:2016; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019
- GPC150S5 (Silent Type)
- GPC150D5 (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)

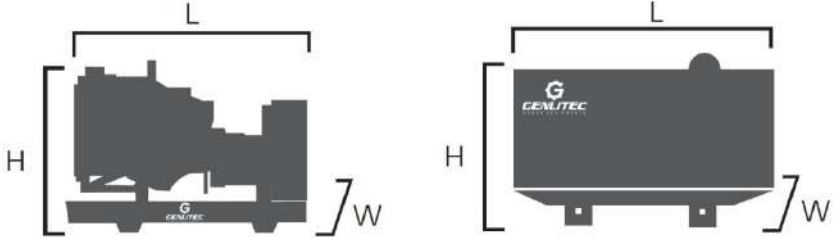
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set can deliver for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried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

Voltage (V)	ESP		PRP		Current Amps
	KVA	KW	KVA	KW	
220/380	165	132	150	120	228
230/400	165	132	150	120	217
240/415	165	132	150	120	209

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)	2400mm	3250mm
Width (W)	1000mm	1150mm
Height (H)	1550mm	1850mm
Net Weight	1500kg	2300kg

Note: This parameter allows for some acceptable deviations.

■ Engine Specification



MODEL: CUMMINS 6BTA5.9-G12	
Cylinder number	6
Aspiration system	Turbo, charge air cooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	102 x 120
Compression ratio	17.3:1
Rated speed (RPM)	1500
Displacement (L)	5.9
Rated power (KW)	140
Standby power (KW)	155
Oil consumption (g/kw.h)	≤4
Fuel system	P7100 type
Oil capacity (L)	16.4
Coolant capacity (L)	10 (Engine only)
Starter motor capacity	DC 24V – 40A

■ Alternator Specification



MODEL: GENLITEC S274G120	
Number of phase	3
Rated power (KW/KVA)	120/150
Frequency (Hz)	50
Power factor (Cos Phi)	0.8
Poles	4
Temp. rise	125K
Terminals	6/12
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
○ Water jacket pre-heater ○ Lubrication oil pre-heater ○ Battery isolator	○ Anti-condensation heater ○ PMG/APEP ○ STAMFORD alternator ○ LEROY SOMER alternator	○ Extended fuel tank 12h/24h/72h ○ C-Type Soundproof canopy ○ D-Type Soundproof canopy ○ Trailer mounted ○ Galvanized sheet canopy	○ 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 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	DEIF	DEESEA
AMF25	SGC 420	DSE7320