

Model: GPC20D5 | GPC20S5

Powered by CUMMINS



Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	20	22
Power (KW)	16	17.6
Rated speed	1500RPM	
Standard voltage	190/110V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPC20	
Engine brand	CUMMINS	
Engine model	4B3.9-G11	
Speed control type	Mechanical	
Alternator brand	GENLITEC	
Alternator model	S184G16	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	50Hz	
Fuel Consumption (L/H)	100% Prime Load	5.7
	75% Prime Load	4.5
	50% Prime Load	3.0
	25% Prime Load	1.6



GENLITEC Power gen-sets 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

• GPC20D5: OPEN TYPE; GPC20S5: 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)

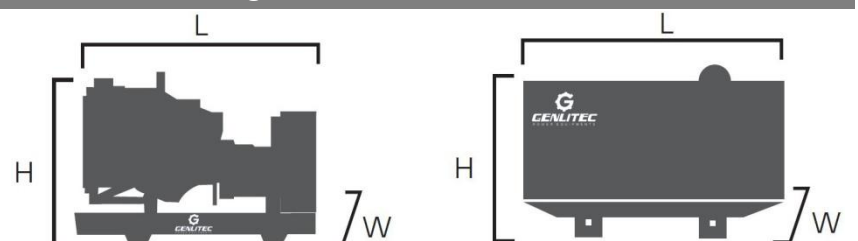
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	PRP		ESP		Current Amps
	KVA	KW	KVA	KW	
190/110	20	16	22	17.6	61
400/230	20	16	22	17.6	29
380/220	20	16	22	17.6	30

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

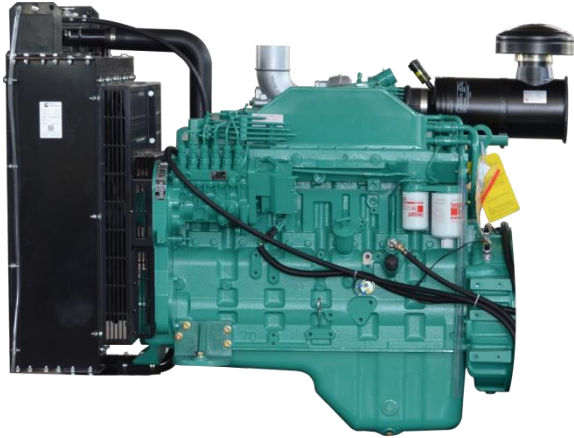
Dimension & Weight



Dimension	Open type	Silent type
Length (L)	1600mm	2250mm
Width (W)	800mm	1000mm
Height (H)	1250mm	1650mm
Net Weight	820kg	1200kg

Note: This parameters allows for some acceptable deviations.

■ Engine Specification



MODEL: CUMMINS 4B3.9-G11	
Cylinder number	4
Aspiration system	Naturally
Cooling method	Water cooled
Governor type	Mechanical
Bore x Stroke (mm)	102x120
Compression ratio	18:1
Rated speed (RPM)	1500
Displacement (L)	3.9
Rated power (KW)	20
Standby power (KW)	N.A
Oil consumption (g/kw.h)	N.A
Fuel system	BYC A-type
Oil capacity (L)	10.9
Coolant capacity (L)	7.2 (ENGINE ONLY)
Starter motor capacity	DC 24V – 40A

■ Alternator Specification



MODEL: GENLITEC S184G16	
Number of phase	3
Rated power (KW/KVA)	16/20
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
○ Water jacket pre-heater	○ Anti-condensation heater	○ Extended fuel tank 12h/24h/72h	○ Remote control system
○ Lubrication oil pre-heater	○ PMG	○ Soundproof canopy	○ Build-in/External ATS
○ Battery isolator		○ Trailer mounted	○ 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 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
		