

■ Model: **GPC90D6** | **GPC90S6**

Powered by CUMMINS



■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	90	100
Power (KW)	72	80
Rated speed	1800RPM	
Standard voltage	127/220V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPC90D6 GPC90S6	
Engine brand	CUMMINS	
Engine model	4BTA3.9-G11	
Speed control type	Electronic	
Alternator brand	LEORY SOMER GENLITEC	
Alternator model	TAL-A44-C S224G64	
Control system	DEIF SGC420 MKII	
Starter motor voltage	24V	
Frequency	60Hz	
Fuel Consumption (L/H)	100% Prime Load	20.1
	75% Prime Load	15.3
	50% Prime Load	10.8
	25% Prime Load	6.4



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

• **GPC90D6: OPEN TYPE; GPC90S6: 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)

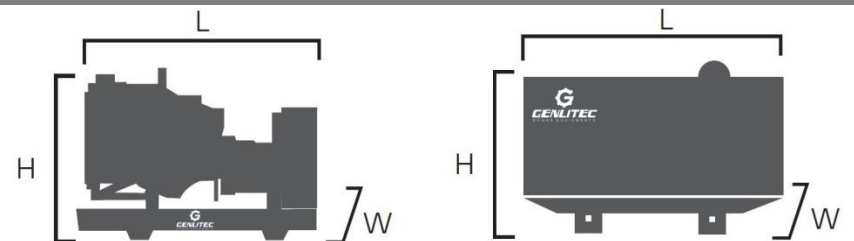
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	PRP		ESP		Current Amps
	KVA	KW	KVA	KW	
120/208	90	72	100	80	409
127/220	90	72	100	80	375
133/230	90	72	100	80	391

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

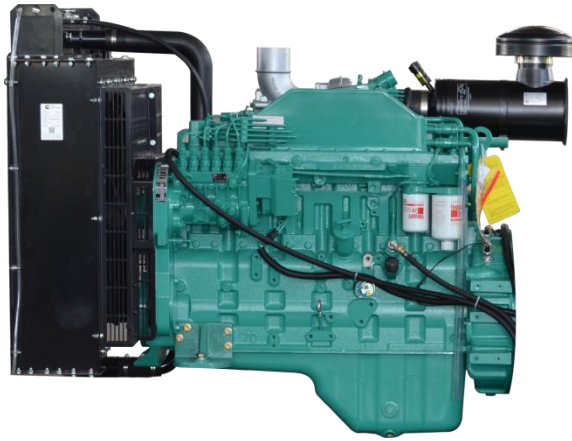
Dimension & Weight



Dimension	Open type	Silent type
Length (L)	1900mm	2480mm
Width (W)	800mm	1000mm
Height (H)	1250mm	1500mm
Net Weight	900kg	1300kg

Note: This parameters allows for some acceptable deviations.

■ Engine Specification



MODEL: CUMMINS 4BTA3.9-G11

Cylinder number	4
Aspiration system	Turbo, Aftercooler
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	102x120
Compression ratio	17.5:1
Rated speed (RPM)	1800
Displacement (L)	3.9
Rated power (KW)	80
Standby power (KW)	90
Oil consumption (g/kw.h)	≤4
Fuel system	BYC PB type
Oil capacity (L)	10.9
Coolant capacity (L)	8.3 (Engine Only)
Starter motor capacity	DC 24V – 40A

■ Alternator Specification



MODEL: LEORY SOMER TAL-A44-C | GENLITEC S224G64

Number of phase	3
Rated power (KW/KVA)	72/90
Frequency (Hz)	60
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
<input type="checkbox"/> Water jacket pre-heater	<input type="checkbox"/> Anti-condensation heater	<input type="checkbox"/> Extended fuel tank 12h/24h/72h	<input type="checkbox"/> Remote control system
<input type="checkbox"/> Lubrication oil pre-heater	<input type="checkbox"/> PMG	<input type="checkbox"/> Soundproof canopy	<input type="checkbox"/> Build-in/External ATS
<input type="checkbox"/> Battery isolator		<input type="checkbox"/> Trailer mounted	<input type="checkbox"/> Synchronizing System
			<input type="checkbox"/> 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: DEIF SGC420 MKII

Display	LED
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

HGM6120N



COMAP

AMF25



DEEPSEA

DSE6020



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