

## ■ Model: GPC50D6 | GPC50S6

Powered by CUMMINS



### ■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	50	55
Power (KW)	40	44
Rated speed	1800RPM	
Standard voltage	220/127V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPC50D6   GPC50S6	
Engine brand	CUMMINS	
Engine model	4BT3.9-G2	
Speed control type	Electronic	
Alternator brand	LEROY SOMER   GENLITEC	
Alternator model	TAL-A42-G   S224G32	
Control system	DEIF SGC420 MKII	
Starter motor voltage	24V	
Frequency	60Hz	
Fuel Consumption (L/H)	100% Prime Load	9.3
	75% Prime Load	7.3
	50% Prime Load	5.3
	25% Prime Load	3.4



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

#### • GPC50D6 (OPEN TYPE); GPC50S6 (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)

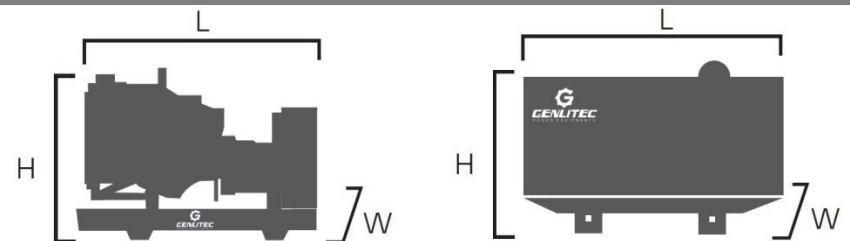
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	50	40	55	44	152
208/120	50	40	55	44	139
220/127	50	40	55	44	131

##### 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

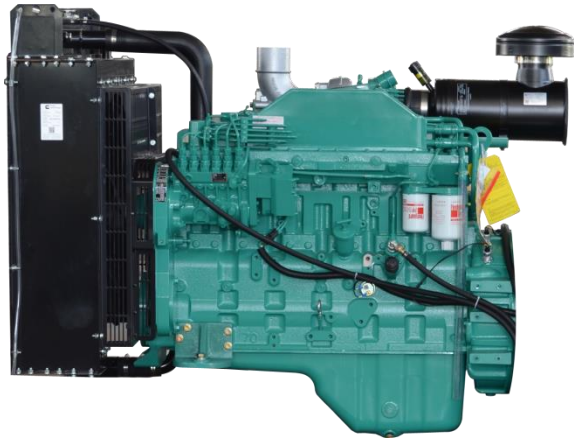
##### Dimension & Weight



Dimension	Open type	Silent type
Length (L)	1750mm	2380mm
Width (W)	800mm	1000mm
Height (H)	1200mm	1400mm
Net Weight	800kg	1200kg

Note: This parameters allows for some acceptable deviations.

## ■ Engine Specification



### MODEL: CUMMINS 4BT3.9-G2

Cylinder number	4
Aspiration system	Turbocharged
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	102x120
Compression ratio	17.3:1
Rated speed (RPM)	1800
Displacement (L)	3.9
Rated power (KW)	36
Standby power (KW)	40
Oil consumption (g/kw.h)	≤4
Fuel system	BYC A-type
Oil capacity (L)	11
Coolant capacity (L)	21
Starter motor capacity	DC 24V

## ■ Alternator Specification



### MODEL: LEROY SOMER TAL-A42-G | GENLITEC S224G32

Number of phase	3
Rated power (KW/KVA)	40/50
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
<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: 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	COMAP	DEEPSEA
HGM6120N	AMF25	DSE6020
		