

# ■ Model: **GPC450D6** | **GPC450S6**

Powered by CUMMINS KTA19-G2



## ■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	450	500
Power (KW)	360	400
Rated speed	1800RPM	
Standard voltage	127/220V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPC450D6   GPC450S6	
Engine brand	CUMMINS	
Engine model	KTA19-G2	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S314G300	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	60Hz	
Fuel Consumption (KG/H)	100% Prime Load	83
	75% Prime Load	66
	50% Prime Load	47
	25% Prime Load	30



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

### • **GPC450D6: OPEN TYPE; GPC450S6: 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)

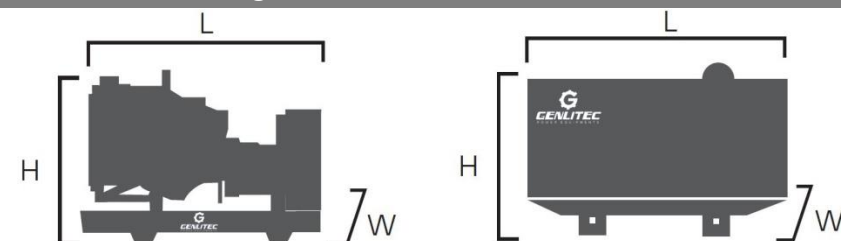
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	ESP		PRP		Current Amps
	KVA	KW	KVA	KW	
440/277	500	400	450	360	591
220/127	500	400	450	360	1181
208/120	500	400	450	360	1250

#### 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

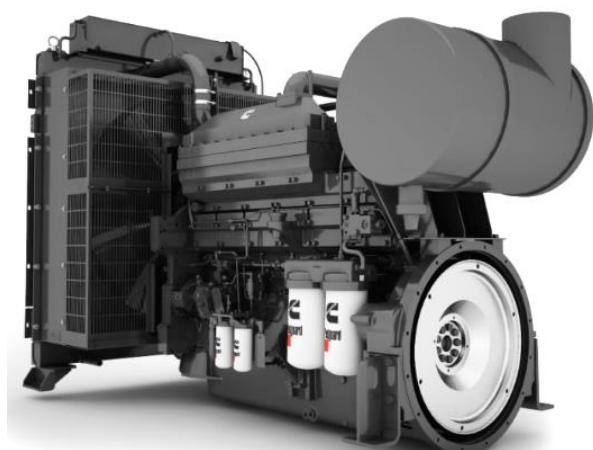


Dimension	Open type	Silent type
Length (L)	3250mm	4280mm
Width (W)	1200mm	1450mm
Height (H)	1850mm	2250mm
Net Weight	3600kg	4500kg

**Note: This parameters allows for some acceptable deviations.**



## ■ Engine Specification



### MODEL: CUMMINS KTA19-G2

Cylinder number	6
Aspiration system	Turbo, aftercooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	159x159
Compression ratio	14.5:1
Rated speed (RPM)	1800
Displacement (L)	19
Rated power (KW)	392
Standby power (KW)	448
Engine speed adjust rate	-
Coolant capacity (L)	30.3 (ENGINE ONLY)
Oil capacity (L)	50
Fuel system	Cummins PT pump
Starter motor capacity	DC 24V

## ■ Alternator Specification



### MODEL: GENLITEC S314G300

Number of phase	3
Rated power (KW/KVA)	360/450
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 - R250
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> <li>○ <b>STAMFORD</b> alternator</li> <li>○ <b>LEROY SOMER</b> alternator</li> </ul>	<ul style="list-style-type: none"> <li>○ Extended fuel tank 12h/24h/72h</li> <li>○ <b>C-Type</b> Soundproof canopy</li> <li>○ <b>D-Type</b> 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 HGM6120

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

#### AMF25



### DEIF

#### SGC 420



### DEESEA

#### DSE7320

