

# Model: GSC150D6-1P | GSC150S6-1P

Powered by SDEC



## Generator Specification

Service	PRP <sup>(1)</sup>	ESP <sup>(2)</sup>
Power (KVA)	150	165
Power (KW)	150	165
Rated speed	1800RPM	
Standard voltage	220V, 230V, 240V	
Power factor	1.0	
Phase	Single	

Performance Data		
Model	GSC150D6-1P   GSC150S6-1P	
Engine brand	SDEC	
Engine model	6HTAA6.5-G23	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S274G128	
Control system	SMARTGEN HGM6120N	
Starter motor voltage	24V	
Frequency	60Hz	
Fuel Consumption (L/H)	100% Prime Load	39.7
	75% Prime Load	29.5
	50% Prime Load	20.5
	25% Prime Load	12.8



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

### GSC150D6-1P: OPEN TYPE; GSC150S6-1P: 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)

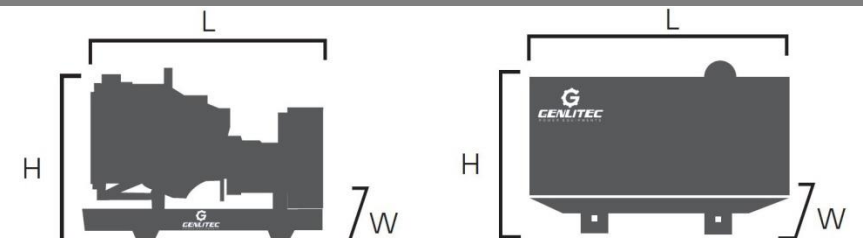
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	PRP		ESP		Current Amps
	KVA	KW	KVA	KW	
415/240	200	160	220	176	278
400/230	200	160	220	176	289
380/220	200	160	220	176	304

#### 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)	2550mm	3550mm
Width (W)	1100mm	1200mm
Height (H)	1680mm	2150mm
Net Weight	1800kg	2650kg

Note: This parameters allows for some acceptable deviations.

## ■ Engine Specification



### MODEL: SDEC 6HTAA6.5-G23

Cylinder number	6
Aspiration system	Air to air, intercooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	105 x124
Compression ratio	16:1
Rated speed (RPM)	1800
Displacement (L)	6.5
Rated power (KW)	168
Standby power (KW)	204
Oil consumption (g/kw.h)	≤4
Fuel system	In line "P" type
Oil capacity (L)	17.5
Coolant capacity (L)	12 (engine only)
Starter motor capacity	DC 24V

## ■ Alternator Specification



### MODEL: GENLITEC S274G128

Number of phase	Single
Rated power (KW)	154
Frequency (Hz)	60
Power factor (Cos Phi)	1.0
Poles	2
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
- 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	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

DEIF	COMAP	DEESEA
SGC420	AMF25	DSE6020
		