

# ■ Model: **GSC80D6-1P** | **GSC80S6-1P**

Powered by SDEC



## ■ Generator Specification

Service	PRP <sup>(1)</sup>	ESP <sup>(2)</sup>
Power (KVA)	80	88
Power (KW)	80	88
Rated speed	1800RPM	
Standard voltage	220V, 230V, 240V	
Power factor	1.0	
Phase	Single	

Performance Data		
Model	GSC80D6-1P   GSC80S6-1P	
Engine brand	<b>SDEC</b>	
Engine model	4HTAA4.3-G21	
Speed control type	Electronic	
Alternator brand	<b>GENLITEC</b>	
Alternator model	S274G68	
Control system	<b>SMARTGEN HGM6120N</b>	
Starter motor voltage	24V	
Frequency	60Hz	
Fuel Consumption (L/H)	100% Prime Load	25.6
	75% Prime Load	19.5
	50% Prime Load	13.5
	25% Prime Load	7.8



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

### • **GSC80D6-1P: OPEN TYPE; GSC80S6-1P: 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)

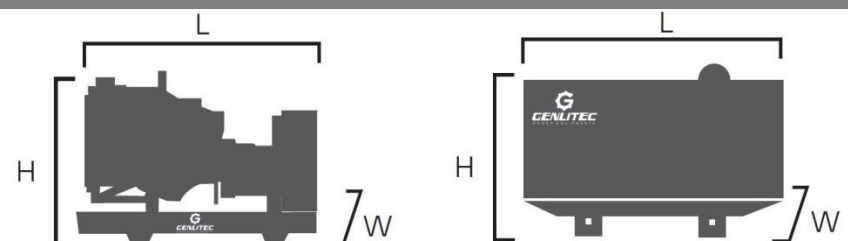
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	PRP		ESP		Current Amps
	KVA	KW	KVA	KW	
240	80	80	88	88	333
230	80	80	88	88	348
220	80	80	88	88	364

#### 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)	2200mm	2750mm
Width (W)	1000mm	1200mm
Height (H)	1450mm	1700mm
Net Weight	1150kg	1650kg

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

## ■ Engine Specification



MODEL: SDEC 4HTAA4.3-G21	
Cylinder number	4
Aspiration system	Turbocharged
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	105 x 124
Compression ratio	17.3:1
Rated speed (RPM)	1800
Displacement (L)	4.3
Rated power (KW)	105
Standby power (KW)	116
Oil consumption (g/kw.h)	≤4
Fuel system	Direct injection
Oil capacity (L)	13
Coolant capacity (L)	6.8 (Engine Only)
Starter motor capacity	DC 24V

## ■ Alternator Specification



MODEL: GENLITC S274G80	
Number of phase	3
Rated power (KW/KVA)	90/113
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> <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
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

