



Generator Specification

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



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
- **GPP50S6: Silent Type**
- **GPP50D6: Open 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	
254/440	55	44	50	40	65.6
127/220	55	44	50	40	131.2
120/208	55	44	50	40	138.8

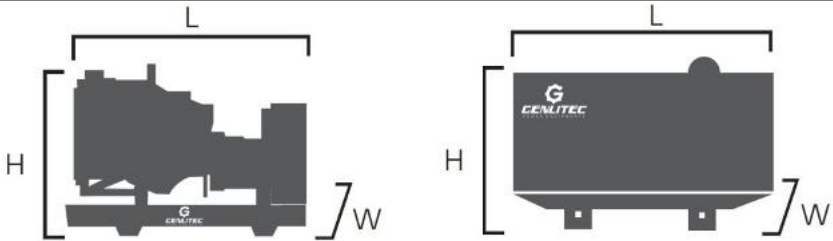
Performance Data

Model	GPP50S6 GPP50D6	
Engine brand	PERKINS	
Engine model	1103A-33TG1	
Speed control type	Mechanical	
Alternator brand	GENLITEC	
Alternator model	S184G32	
Control system	DEEPSEA DSE6120 MKII	
Starter motor voltage	12V	
Frequency	60Hz	
Fuel Consumption	100% Prime Load	12.9 L/hrs
	75% Prime Load	9.9 L/hrs
	50% Prime Load	7.1 L/hrs
	Fuel tank volume	75 Liters

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)	1950mm	2320mm
Width (W)	850mm	1050mm
Height (H)	1370mm	1250mm
Net Weight	820kg	1160kg

Note: This parameter allows for some acceptable deviations.

■ Engine Specification



MODEL: PERKINS 1103A-33TG1	
Cylinder number	3
Aspiration system	Turbocharged
Cooling method	Water cooled
Governor type	Mechanical
Bore x Stroke (mm)	105 x 127
Compression ratio	17.25:1
Rated speed (RPM)	1800
Displacement (L)	3.3
Rated power (KW)	50.5
Standby power (KW)	55.6
Oil consumption (g/kw.h)	/
Coolant capacity (L)	10.2
Oil capacity (L)	7.9
Combustion system	Direct injection
Starter motor capacity	DC 12V

■ Alternator Specification



MODEL: GENLITEMC S184G32	
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	6 (12-lead for option)
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
 - Emergency stop button
- Base frame
 - Digital control panel
 - Main circuit breaker

■ Optional Supply Scope

Engine	Alternator	Generator Sets	Control Panel
○ Water jacket pre-heater ○ Lubrication oil pre-heater ○ Battery isolator	○ Anti-condensation heater ○ PMG ○ AREP ○ STAMFORD alternator ○ LEROY SOMER alternator	○ Extended fuel tank ○ Trailer mounted ○ Galvanized steel enclosure	○ Remote control system ○ ATS panel ○ 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
● Multiple display languages
● Automatic transfer between mains and generator power
● 3-phase mains and generator voltage monitoring
● Generator current monitoring and protection
● Event log for 10 events and engine-hours counter
● 6 digital inputs and 3 analog sender inputs
● Six outputs; configuration depends on the engine version
● 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
● IP65 rating with rubber-ring gasket



Control Module Model: DEEPSEA DSE6120 MKII	
Display	Large back-lit text display
Generator & Mains (Utility)	15 V to 415 V AC (Ph to N)
Voltage Range	26 V to 719 V AC (Ph to Ph)
Frequency range	3.5 Hz to 75 Hz
Analogue inputs A to F	Negative switching
AMF function	Yes
AC System	1P2W / 2P3W / 3P3W / 3P4W
Alternator frequency	50/60Hz
Monitor interface	USB
Programmable interface	USB
DC supply	DC 8-35V
Operating temp.	-30 ~ +70°C

Control Module Certified	
CE	PG
UL LISTED	ISO 9001
UKAS	EGSA
AMPS	IPC MEMBER

Controller Module Options

COMAP	SMARTGEN	DEEPSEA
AMF25	HGM6120N	DSE7320 MKII

