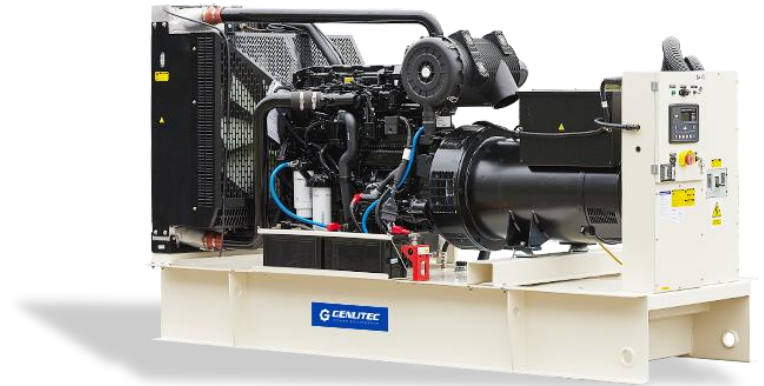


Model: GPP250D5 | GPP250S5

Powered by PERKINS



Generator Specification

Service	PRP ⁽¹⁾	ESP ⁽²⁾
Power (KVA)	250	275
Power (KW)	200	220
Rated speed	1500RPM	
Standard voltage	400/230V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPP250D5 GPP250S5	
Engine brand	PERKINS	
Engine model	1206A-E70TTAG3	
Speed control type	Electronic	
Alternator brand	LEORY SOMER	
Alternator model	TAL-A46-D	
Control system	DEEPSEA DSE6120	
Starter motor voltage	24V	
Frequency	50Hz	
Consumption (L/H)	100% Prime Load	56.9
	75% Prime Load	41.5
	50% Prime Load	28.1
	25% Prime Load	15.4
	Fuel Tank (L)	400



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

• **GPP250D5: OPEN TYPE; GPP250S5: 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)

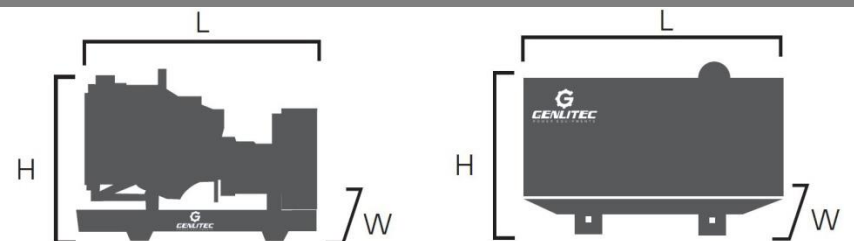
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures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

Voltage (V)	ESP		PRP		Current Amps
	KVA	KW	KVA	KW	
415/240	275	220	250	200	347.8
400/230	275	220	250	200	360.8
380/220	275	220	250	200	379.8

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

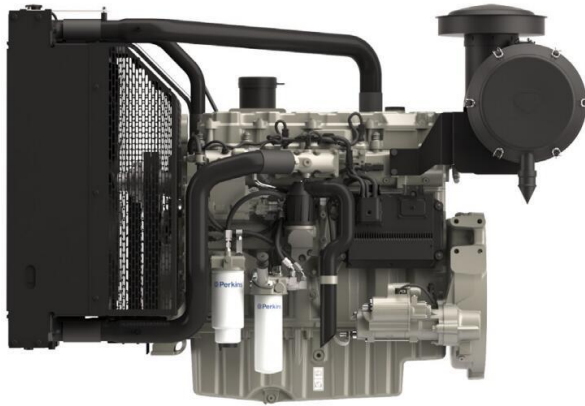
Dimension & Weight



Dimension	Open type	Silent type
Length (L)	2800mm	3600mm
Width (W)	1100mm	1300mm
Height (H)	1750mm	2100mm
Net Weight	2200kg	3200kg

Note: This parameters allows for some acceptable deviations.

■ **Engine Specification**



MODEL: PERKINS 1206A-E70TAG3

Cylinder number	6
Aspiration system	Turbocharged aftercooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	105 x 135
Compression ratio	15.8:1
Rated speed (RPM)	1500
Displacement (L)	7.01
Rated power (KW)	222
Standby power (KW)	244
Oil consumption (g/kw.h)	≤4
Coolant capacity (L)	25
Oil capacity (L)	13-16
Fuel system	High-pressure common rail
Starter motor capacity	DC 24V

■ **Alternator Specification**



MODEL: LEROY SOMER TAL-A46-D

Number of phase	3
Rated power (KW/KVA)	200/250
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
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"> <input type="checkbox"/> Water jacket pre-heater <input type="checkbox"/> Lubrication oil pre-heater <input type="checkbox"/> Battery isolator 	<ul style="list-style-type: none"> <input type="checkbox"/> Anti-condensation heater <input type="checkbox"/> PMG 	<ul style="list-style-type: none"> <input type="checkbox"/> Extended fuel tank 12h/24h/72h <input type="checkbox"/> Soundproof canopy <input type="checkbox"/> Trailer mounted <input type="checkbox"/> 20GP containerized canopy 	<ul style="list-style-type: none"> <input type="checkbox"/> Remote control system <input type="checkbox"/> Build-in/External ATS <input type="checkbox"/> Synchronizing System <input type="checkbox"/> Power output sockets

■ **Warranty Period**

- PERKINS diesel engine:** Global warranty, 12 months or 1000 working hours.
- STAMFORD alternator:** Global warranty, 12 months or 1000 working hours.
- GENLITEC alternator:** Factory warranty, 15months or 1200 working hours.
- SMARTGEN control module:** Factory warranty, 12 months or 1000 working hours.

Control Panel



DSE6110/20 MKII

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

DSE6120 MKII



DSE6110 MKII



KEY FEATURES

- Large back-lit text display
- Multiple display languages
- Heated display option available
- DSENet® expansion compatible
- Data logging facility
- Fully configurable via PC using USB communication
- Front panel configuration
- Efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE6120 MKII only)
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAR h)
- Generator/load current monitoring and protection
- Generator overload protection (kW)
- Breaker control via fascia buttons
- Fuel and start outputs, configurable when using CAN
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- Support for 0 to 10 V & 4 to 20 mA oil pressure sensors
- 6 configurable digital inputs
- Configurable staged loading outputs
- CAN, MPU and alternator speed sensing in one variant
- 3 engine maintenance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Engine idle control for starting & stopping
- Fuel pump control
- Real time clock
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- 1 alternative configuration
- Comprehensive warning, electrical trip or shutdown protection upon fault condition
- LCD and LED alarm indication
- Customisable information screens
- Configurable event log (100)
- Tier 4 ECO engine support including exhaust fluids & filters

- J1939-75 instrumentation output, configurable CAN instrumentation and alarms
- Start on low battery
- Enhanced alarm functionality
- Low load alarm

KEY BENEFITS

- Automatically transfers between mains (utility) and generator (DSE6120 MKII only)
- Increased input and output expansion capability via DSENet®
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on a large back-lit text display via multiple languages
- The module can be configured to suit a wide range of applications
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

SPECIFICATIONS

DC SUPPLY

CONTINUOUS VOLTAGE RATING
8 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 50 ms, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT

100 mA at 12 V, 105 mA at 24 V

MAXIMUM STANDBY CURRENT

60 mA at 12 V, 55 mA at 24 V

MAXIMUM SLEEP CURRENT

40 mA at 12 V, 35 mA at 24 V

GENERATOR & MAINS (UTILITY)

VOLTAGE RANGE

15 V to 415 V AC (Ph to N)
26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE

3.5 Hz to 75 Hz

INPUTS

DIGITAL INPUTS A to F
Negative switching

ANALOGUE INPUT A

Configurable as:
Negative switching digital input
0 V to 10 V
4 mA to 20 mA
0 Ω to 240 Ω

ANALOGUE INPUTS B TO D

Configurable as:
Negative switching digital input
0 Ω to 480 Ω

OUTPUTS

OUTPUT A (FUEL)

10 A short term, 5 A continuous, at supply voltage

OUTPUT B (START)

10 A short term, 5 A continuous, at supply voltage

AUXILIARY OUTPUTS C, D, E & F

2 A DC at supply voltage

DIMENSIONS

OVERALL

216 mm x 158 mm x 43 mm
8.5" x 6.2" x 1.5"

PANEL CUT-OUT

184 mm x 137 mm
7.2" x 5.3"

MAXIMUM PANEL THICKNESS

8 mm
0.3"

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C
-40 °F to +185 °F

OPERATING TEMPERATURE RANGE

NON HEATED DISPLAY VARIANT
-30 °C to +70 °C
-22 °F to +158 °F

HEATED DISPLAY VARIANT

-40 °C to +70 °C
-40 °F to +158 °F