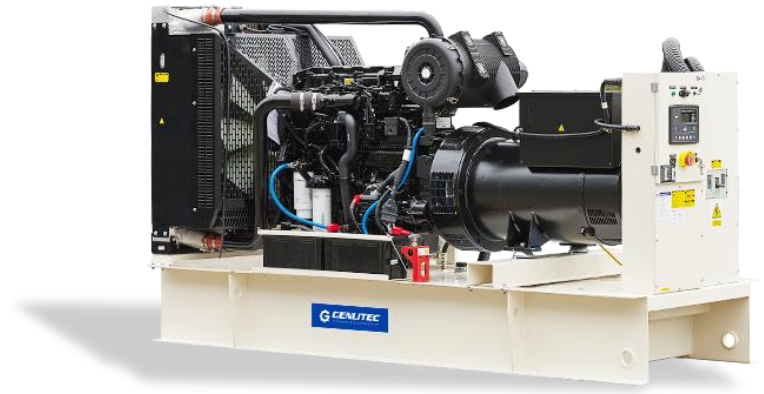


Model: GPP100D5 | GPP100S5

Powered by PERKINS



Generator Specification

Service	PRP ⁽¹⁾	ESP ⁽²⁾
Power (KVA)	100	110
Power (KW)	80	88
Rated speed	1500RPM	
Standard voltage	400/230V	
Power factor	0.8	
Phase	3	

Performance Data		
Model	GPP100D5 GPP100S5	
Engine brand	PERKINS	
Engine model	1104C-44TAG2	
Speed control type	Electronic	
Alternator brand	LEROY SOMER	
Alternator model	TAL-A44-D	
Control system	DEEPSEA DSE6020	
Starter motor voltage	12V	
Frequency	50Hz	
Fuel Consumption	100% Prime Load	26.9 L/hrs
	75% Prime Load	20.2 L/hrs
	50% Prime Load	14.1 L/hrs
	Fuel tank volume	200 Liters



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

• GPP100D5: OPEN TYPE; GPP100S5: 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)

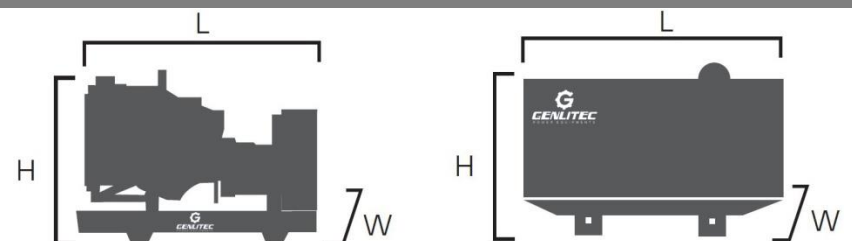
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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	100	80	110	88	140
400/230	100	80	110	88	144
380/220	100	80	110	88	152

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

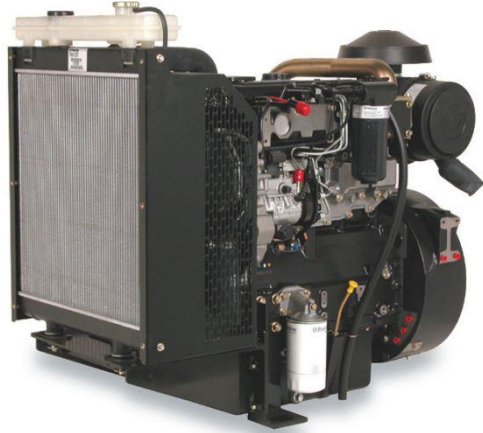
Dimension & Weight



Dimension	Open type	Silent type
Length (L)	2150mm	2930mm
Width (W)	750mm	1080mm
Height (H)	1550mm	1650mm
Net Weight	1290kg	1750kg

Note: This parameters allows for some acceptable deviations.

■ **Engine Specification**



MODEL: PERKINS 1104C-44TAG2

Cylinder number	4
Aspiration system	Turbocharged
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	105x127
Compression ratio	18.23:1
Rated speed (RPM)	1500
Displacement (L)	4.41
Rated power (KW)	106
Standby power (KW)	117
Oil consumption (g/kw.h)	≤4
Fuel system	Single injection pump
Oil capacity (L)	8
Coolant capacity (L)	12.6
Starter motor capacity	DC 12V

■ **Alternator Specification**



MODEL: LEROY SOMER TAL-A44-D

Number of phase	3
Rated power (KW/KVA)	80/100
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
<input type="checkbox"/> Water jacket pre-heater	<input type="checkbox"/> Anti-condensation heater	<input type="checkbox"/> Extended fuel tank 24h/36h/72h	<input type="checkbox"/> Remote control system
<input type="checkbox"/> Lubrication oil pre-heater	<input type="checkbox"/> PMG	<input type="checkbox"/> Soundproof canopy	<input type="checkbox"/> Build-in/External ATS
<input type="checkbox"/> Battery isolator	<input type="checkbox"/> STAMFORD alternator	<input type="checkbox"/> Trailer mounted	<input type="checkbox"/> Synchronizing System
<input type="checkbox"/> Electric governor	<input type="checkbox"/> LEROY SOMER alternator		<input type="checkbox"/> Power output sockets

■ **Warranty Period**

- **PERKINS ENGINE:** Global warranty of 12 months or 1000 working hours.
- **LEROY SOMER ALTERNATOR:** Global warranty of 12 months or 1000 working hours.
- **GENLITEC DIESEL GENERATOR SET:** Genlitec company limited warranty, 12 months or 1000 hours, whichever comes first.

■ Control Panel



DSE6010/20 MKII

AUTO START AND AUTO MAINS FAILURE CONTROL MODULES

FEATURES



DSE6010 MKII



DSE6020 MKII



KEY BENEFITS

- Automatically transfers between mains (utility) and generator (DSE6020 MKII only)
- Hours counter provides accurate information for monitoring and maintenance periods
- 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 icon display
- The module can be configured to suit a wide range of applications
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

KEY FEATURES

- Large back-lit icon display
- Heated display option available
- Fully configurable via the fascia or PC using USB communication
- Efficient power save mode
- 3 phase generator sensing
- 3 phase mains (utility) sensing (DSE6020 MKII only)
- Generator/load power monitoring (kW, kV A, kV Ar, pf)
- Accumulated power monitoring (kW h, kVA h, kVAR h)
- Generator overload protection (kW)
- Generator/load current monitoring and protection
- Breaker control via fascia buttons
- Fuel and start outputs, configurable when using CAN
- 4 configurable DC outputs
- 4 configurable analogue/digital inputs
- 6 configurable digital inputs
- Support for 0-10 V & 4-20 mA oil pressure sensors
- 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
- Configurable event log (50)

RELATED MATERIALS

TITLE	PART NO'S
DSE6010/20 MKII Installation Instructions	053-174
DSE6010/20 MKII Operator Manual	057-230
DSE6010/20 MKII Configuration Suite PC Manual	057-223

TITLE	PART NO'S
DSE6010/20 MKII Installation Instructions	053-174
DSE6010/20 MKII Operator Manual	057-230
DSE6010/20 MKII Configuration Suite PC Manual	057-223

SPECIFICATION

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 INPUTS A to C Configurable as: Negative switching digital input 0 Ω to 480 Ω
ANALOGUE INPUT D Configurable as: Negative switching digital input 0 V to 10 V 4 mA to 20 mA 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 -30°C to +70°C -22 °F to +158 °F
HEATED DISPLAY VARIANT -40 °C to +70 °C -40 °F to +158 °F

OPTIONAL PARTS

PART	PART NUMBER
IP65 Gasket	020-521