

# ■ Model: GPC250D5 | GPC250S5

Powered by CUMMINS



## ■ 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	GPC250D5   GPC250S5	
Engine brand	CUMMINS	
Engine model	6LTAA8.9-G2	
Speed control type	Electronic	
Alternator brand	LEROY SOMER	
Alternator model	TAL-A46-D	
Control system	DEESEA DSE6120	
Starter motor voltage	24V	
Frequency	50Hz	
Consumption (L/H)	Fuel 100% Prime Load	54
	Fuel 75% Prime Load	41
	Fuel 50% Prime Load	30
	Fuel 25% Prime Load	20
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

### • GPC250D5: OPEN TYPE; GPC250S5: 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)

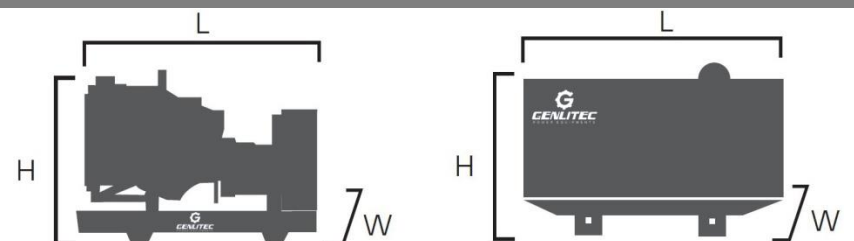
According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures 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)	2600mm	3700mm
Width (W)	1200mm	1400mm
Height (H)	1700mm	2250mm
Net Weight	1900kg	2900kg

Note: This parameters allows for some acceptable deviations.

■ **Engine Specification**



**MODEL: CUMMINS 6LTAA8.9-G2**

Cylinder number	6
Aspiration system	Turbo air-air cooled
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	114x145
Compression ratio	15:1
Rated speed (RPM)	1500
Displacement (L)	8.9
Rated power (KW)	220
Standby power (KW)	/
Injection	Direct injection
Coolant capacity (L)	11.1 (Engine Only)
Oil capacity (L)	27.6
Max. water temperature	104°C
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"> <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> <li>○ 20GP containerized canopy</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>

■ **Warranty Period**

**CUMMINS diesel engine:** Global warranty, 12 months or 1000 working hours.  
**LEROY SOMER alternator:** Global warranty, 12 months or 1000 working hours.  
**GENLITEC alternator:** Factory warranty, 12 months or 1000 working hours.  
**DEEPSEA control module:** Factory warranty, 12 months or 1000 working hours.

■ Control Panel

# DSE6110/20

## AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES



DSE6120



DSE6110



KEY FEATURES

- Back-lit text LCD display
- Front panel editing
- LED and LCD alarm indication
- Power Save mode
- CAN and Magnetic Pick-up/Alt. versions available (specify on ordering)
- PC and front panel configuration
- 6 Digital inputs
- 3 Analogue inputs
- 6 Outputs (4 configurable on Magnetic Pick-up/Alt., 6 configurable on CAN version)
- Configurable timers and alarms
- Alternative configuration
- Event Log (10)
- Remote Start input
- 3 Phase generator monitoring

- Current Monitoring and protection
- 3 Phase Mains (Utility) monitoring (DSE6120 only)
- Test button (DSE6120 only)
- Battery voltage monitoring
- Engine pre-heat
- Hours counter
- Comprehensive shutdown or warning on fault condition
- Multiple engine parameters are monitored simultaneously
- Module can be configured to suit individual applications
- Compatible with a wide range of CAN engines
- Tier 4 engine support
- Uses DSE Configuration Suite PC software for simplified configuration
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Licence-free PC software

KEY BENEFITS

- Automatically transfers between mains (utility) and generator power (DSE6120 only)
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout

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

178 mA at 12 V, 95 mA at 24 V

MAXIMUM STANDBY CURRENT

88 mA at 12 V, 50 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

0 V to 35 V

MAINS (UTILITY) DSE6120 ONLY

**VOLTAGE RANGE**  
15 V - 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

OUTPUTS

**OUTPUT A (FUEL)**  
2 A DC at supply voltage

**OUTPUT B (START)**  
2 A DC at supply voltage

**AUXILIARY OUTPUTS C,D,E & F**  
2 A DC at supply voltage

GENERATOR

**VOLTAGE RANGE**  
15 V - 333 V AC (L-N)

**FREQUENCY RANGE**  
3.5 Hz to 75 Hz

**MAGNETIC PICK UP**  
**VOLTAGE RANGE**  
+/- 0.5 V to 70 V

**FREQUENCY RANGE**  
10,000 Hz (max)

DIMENSIONS

**OVERALL**  
215 mm x 158 mm x 42 mm  
8.5" x 6.2" x 1.6"

**PANEL CUT-OUT**  
182 mm x 137 mm  
7.2" x 5.4"

**MAXIMUM PANEL THICKNESS**  
8 mm  
0.3"

**STORAGE TEMPERATURE RANGE**  
-40 °C to +85 °C

RELATED MATERIALS

TITLE	PART NO'S
DSE6110 Installation Instructions	053-059
DSE6120 Installation Instructions	053-060
DSE6100 Quick Start Guide	057-102
DSE6100 Operator Manual	057-095
DSE6100 Configuration Suite PC Manual	057-096

PART NO'S

053-059
053-060
057-102
057-095
057-096