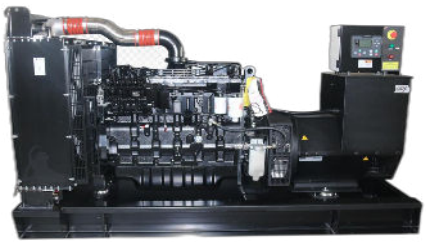
Power Solution Expert

SHANHUA Power

SIMANC

HL100GF/S

50Hz POWERED BY CUMMINS SERIE



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 400/230V-50Hz-3Phase

Frequency	Speed	Voltage	Power	KW	KVA
50Hz	1500 rpm	400V	Standby Power	110	137.5
50Hz	1500 rpm	400V	Prime Power	100	125

Genset Dimensions and Weights	OPEN STYLE	Overall Size L×W×H，mm	2210x810x1320
		Weight（net）kg	1000
	SOUNDPROOF STYLE	Overall Size L×W×H，mm	3170*1280*1620
		Weight(net）kg	1900

Voltage regulation	≥±5%
Voltage Regulation, Stead State	≤±1%
Sudden Voltage Warp (100% Sudden Reduce)	≤+25%
Sudden voltage Warp(Sudden Increase)	≤-20%
Voltage Stable Time (100% Sudden Reduce)	≤6S
Voltage Stable Time(Sudden Increase)	≤6S
Frequency Regulation， Stead State	≤5%
Frequency Waving	≤1.5%
Sudden Frequency Warp （100%Sudden Reduce）	≤+12%
Sudden Frequency Warp （Sudden Increase）	≤-10%
Frequency Recovery Time（100%Sudden Reduce ）	≤5S
Frequency Recovery Time （Sudden Increase）	≤5S

Standby Power: Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime Power: Continues running at variable load for unlimited periods with 10% overload available fo in ur period.

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine.

ENGINE Specification

Manufacturer: Cummins

Manufacturer	DCEC CUMMINS	Engine Model		6BTAA5.9-G2	
Base Output Power (kW)	120	Standby Power (kW)		130	
Engine speed (rpm)	1500	Displacement, total (L)		5.9	
Number of cylinders	6	cycle		4-cycle	
Bore*Stroke(mm)	102*120	Compression ratio		17.3:1	
Low idle (rpm)	750-850	Torque (Nm)		828	
Piston speed (m/s)	6.0	Engine weight,dry (kg)		411	
Air intake way	Turbo	Air intake flow (L/sec)		145	
Exhaust temperature (℃)	495	Exhaust flow (L/sec)		324	
Coolant capacity-engine only (L)	10	Engine coolant flow (L/sec)		2.0	
Lubrication system Min. capacity (L)	10.9	Max. oil temperature permitted in oil pan (℃)		121	
Start Motor Voltage (V)	24	The fuel tank （L）		265	
Fuel injection pump model	BYC A pump with RSV governor				
CONSUMPTION (L/h)	Standby power	34	100% prime power	30	
	75% prime power	23	50% prime power	16	
	25% prime power	9			

- Cummins engines with advanced design, reliable performance, durable operation.
- Alloy-steel and connecting steel-lever, high durability
- High combustion efficiency and low fuel consumption, work continuously
- P/T pump injection technology, low cost, completely combustion

Note: All data sheets are for reference only and subject to change without

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ALTERNATOR Specification

Manufacturer: ShanHua

ALTERNATOR SPECIFICATION			
Manufacturer	WUXI STAMFORD	Alternator Model	UCI274ES14
Frequency	50 HZ	Rated Speed （RPM）	1500
Voltage Regulation	±5%	Prime Voltage （V）	400
Number of Phase	3	Altitude	≤1000m
Power Factor	0.8	Protection Grade	IP23
Connecting Type	3 Phase and 4 Wires	Exciter Type	Brush less,self-exciting
Insulation Class	H	Temperature Rise	H
TIF	＜50	THF	＜2%

FEATURES

- Class H insulation system
- selectable winding,To meet the demand of the bad environment
- 12 Lead Reconnect, able for different voltage, meet the demand of different countries and regions
- 2/3 pitch windings restrain the content of harmonious
- Different Excitation Systems for different load demand
- Ip23 standard protection,IP44 for option
- Provide single bearing or double bearing

STANDARDS

-IEC60034,NEMA MG1-32,ISO8528,

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Control Panel

Model: DSE7320

AUTO START & AUTO MAINS FAILURE CONTROL MODULES

DIMENSIONS

OVERALL

216mmx 158mm x 42mm
(8.5” x 6.2” x 1.6”)

PANEL CUTOUT

182mmx 137mm
(7.2” x 5.4”)

WEIGHT

400g(0.4kg)

KEY FEATURES

- Back-lit icon 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
- 4 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 (5)
- Remote Start input
- 3 Phase generator monitoring
- Current monitoring and protection
- Power monitoring(kW, kV A, kV Ar)
- 3 Phase Mains (Utility) monitoring (DSE7320 only)
- Test button (DSE7320 only)
- Battery Voltage monitoring
- Engine pre-heat
- Hours counter
- Comprehensive shutdown or warning on fault condition

KEY BENEFITS

- Automatically transfers between mains (utility) and generator power (DSE7320 only)
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button
- Multiple engine parameters are monitored simultaneously
- Module can be configured to suit individual applications
- Compatible with a wide range of CAN engines
- Uses DSE Configuration Suite PC software for simplified configuration
- IP65 rating (with optional gasket) offers increased resistance to water ingress
- Licence-free PC software.

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