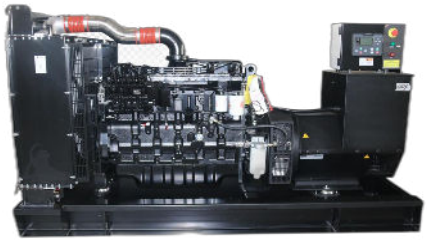
Power Solution Expert

SHANHUA Power
SIMANC

HL105GF/S

60Hz POWERED BY CUMMINS SERIE



Silent Type Model		HL105GF	Open Type Model		HL105GFS
Frequency	Speed	Voltage	Power	KW	KVA
60Hz	1800 rpm	400V	Standby Power	116	145
60Hz	1800 rpm	400V	Prime Power	105	131
Genset Dimensions and Weights		OPEN STYLE	Overall Size L×W×H，mm		2210*810*1310
			Weight（net）kg		985
		SOUNDPROOF STYLE	Overall Size L×W×H，mm		3150*1250*1670
			Weight(net）kg		1850

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

TECHNICAL SPECIFICATIONS

DIESEL GENERATOR SET 400V-60Hz-3Phase

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 for 1 hour in any 12 hour 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.

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ENGINE Specification

Manufacturer: Cummins

DIESEL ENGINE SPECIFICATION					
Manufacturer	DCEC CUMMINS	Engine Model		6BTA5.9-G2	
Base Output Power (kW)	120	Standby Power (kW)		132	
Engine speed (rpm)	1800	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)	750-950	Torque (Nm)		586	
Piston speed (m/s)	6.0	Start Motor Voltage (V)		24	
Air intake way	Turbo	Air intake flow (L/sec)		140	
Exhaust temperature (°C)	540	Exhaust flow (L/sec)		381	
Coolant capacity-engine only (L)	10	Engine coolant flow (L/sec)		2.0	
Lubrication system Min. capacity (L)	16.4	Max. oil temperature permitted in oil pan (°C)		121	
Fuel injection pump model	BYC A pump with RSV governor				
CONSUMPTION (L/h)	Standby power	34	100% prime power	31	
	75% prime power	23	50% prime power	16	
	25% prime power	10			

- 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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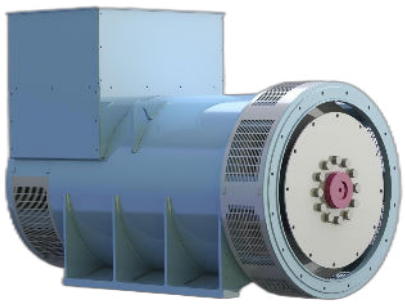
ALTERNATOR Specification

Manufacturer: ShanHua

Type	HLF105
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	Brushless SHUNT
Insulation : class , temperature rise	H / H
Degree of protection	IP23
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

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,CSA

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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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