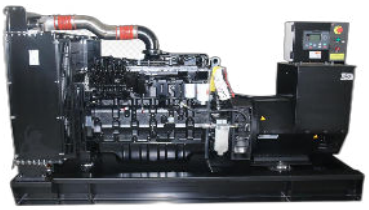
Power Solution Expert

SHANHUA Power

SIMANC

HL120GF/S

50Hz POWERED BY CUMMINS SERIE



TECHNICAL SPECIFICATIONS

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

Diesel Generator Set Technical Specification					
Manufacturer	SHANDONG HUALI ELECTROMECHANICAL CO.,LTD		**Genset Model**	**HL120GF**	
Frequency	**Speed**	**Voltage**	**Power**	**KW**	**KVA**
50Hz	1500 rpm	400V	Standby Power	132	155
50Hz	1500 rpm	400V	Prime Power	120	150
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

STANDARDS:

Diesel Engine: CUMMINS , 6BTAA5.9-G12

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.

ENGINE Specification

Manufacturer: Cummins

DIESEL ENGINE SPECIFICATION					
Manufacturer	DCEC CUMMINS	Engine Model	6BTAA5.9-G12		
Base Output Power (kW)	140	Standby Power (kW)	155		
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 (℃)	507	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				
Fuel injection pump model	BYC A pump with RSV governor				
CONSUMPTION (L/h)	Standby power	38	100% prime power	34	
	75% prime power	26	50% prime power	17	
	25% prime power	10			

ALTERNATOR SPECIFICATION			
Manufacturer	SHANHUA	**Alternator Model**	HLF-120
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	IP21
Connecting Type	3 Phase and 4 Wires	Exciter Type	Brush less,self-exciting
Insulation Class	H	Temperature Rise	H
TIF	＜50	THF	＜2%

- 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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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

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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 (DSE6020 only)
- Test button (DSE6020 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 (DSE6020 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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