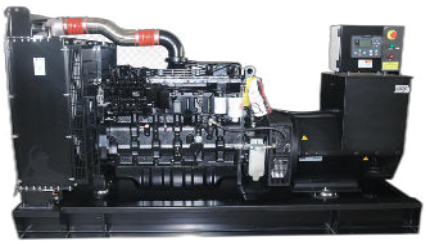
HL20GF/S

60Hz POWERED BY CUMMINS SERIE



TECHNICAL SPECIFICATIONS

DIESEL GENERATOR SET 220V-60Hz-3Phase

Model	HL20GF	
Power(ESP)	kVA/kw	27.5/22
Power(PRP)	kVA/kw	25/20
Rated Voltage	V	220
Rated Current	A	65.6
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	Litre/hour	7.1
Fuel Tank Capacity	Litre	6 hours of operation
Noise level	dB(A)@7m	Silent Type: 76±2

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	2200*1150*1600(mm)	1050Kg
Silent Type	1560*640*1080(mm)	680 Kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

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

Model	4B3.9-G11
Engine speed Rated	1800 RPM
Cylinder /Arrangement	4
Displacement	3.9 L
Bore and Stroke	102 mm×120 mm
Compression ratio	18.0 : 1
Max. stand by power at rated RPM	26KW
Frequency regulation , steady state	=1%
Governor : type	Electrical
Aspiration and Cooling	Turbocharged

Exhaust System

Exhaust temperature	540°C
Max back pressure	10.0kPa

Fuel System

Fuel consumption100% (of the Prime Power)	7.1 L / h
Fuel consumption75% (of the Prime Power)	56 L / h
Fuel consumption50% (of the Prime Power)	4.8L / h
Fuel consumption25% (of the Prime Power)	3.1 L / h

Oil system

Total oil capacity w/filters	10.9 L

Air intake

Engine air flow	32.9L/s

Coolant System

Radiator & engine capacity	7.2 L
Max water temperature	104°C
Thermostat	82-95°C

- 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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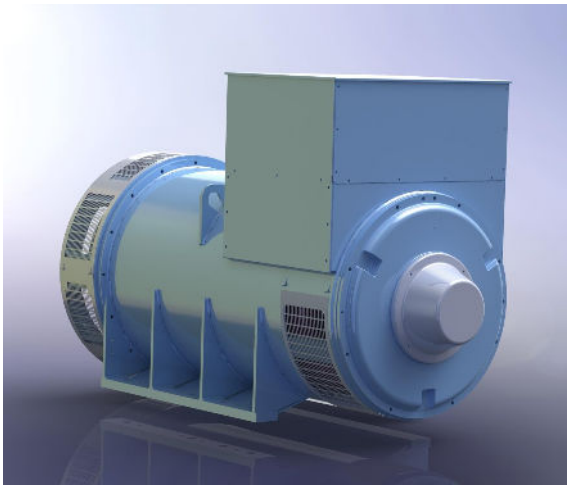
ALTERNATOR Specification

Manufacturer: ShanHua

Type	HLF18
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 C22.2-100,VDE 0530,GB755

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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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