

Cummins-EPC50GF

Description

50hz 50kW Cummins Natural Gas generator 220/380V 3phase Silent type

GENSET POWER

Voltage	Hz	Phase	Power Factor	Current	Standby Power	Prime Power
220V	60HZ	1	1	227A	55kW	50kW

General features

Model	Cummins LYB3.9-G70	Rated current	227A
Rated power	50kW	Power factor	1
Standby power	55kW	Controller	Auto controller
Rated voltage	220V	Speed Governor	Electric control
Rated frequency	60Hz	Fuel	Natural gas
Rated speed	1800 rpm	Gas Consumption	0.3m³/kW·h

* Sea-Level<1000m, Temp<40℃.

* Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqv ISO8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

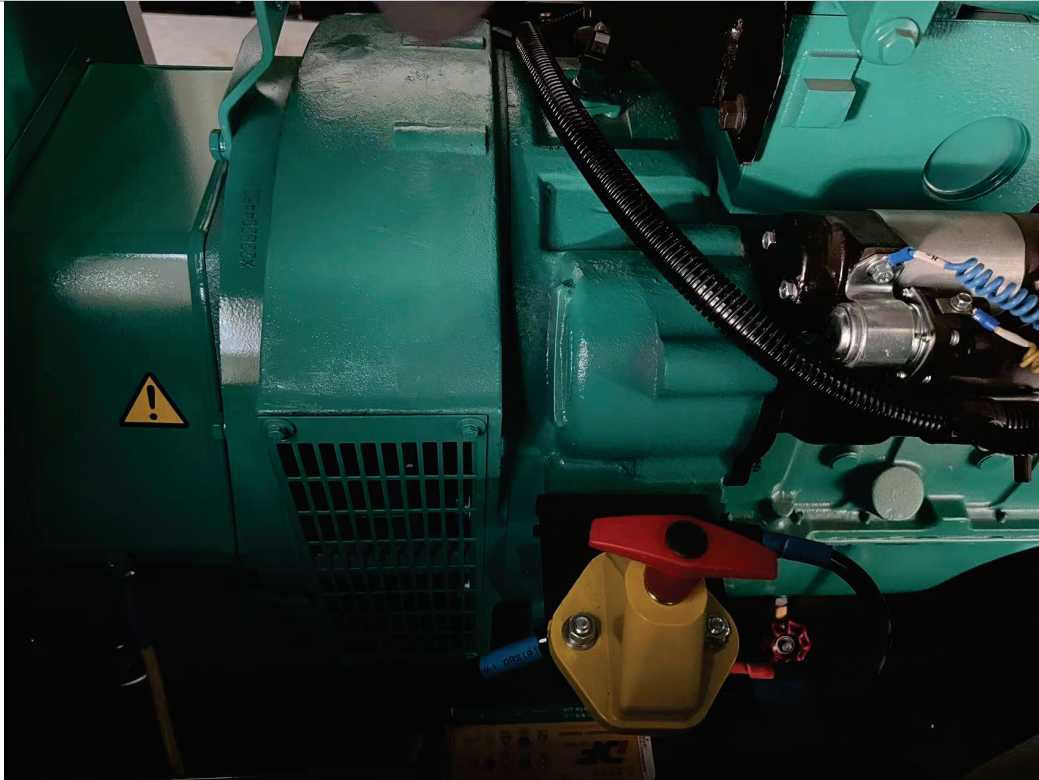
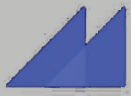
* Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

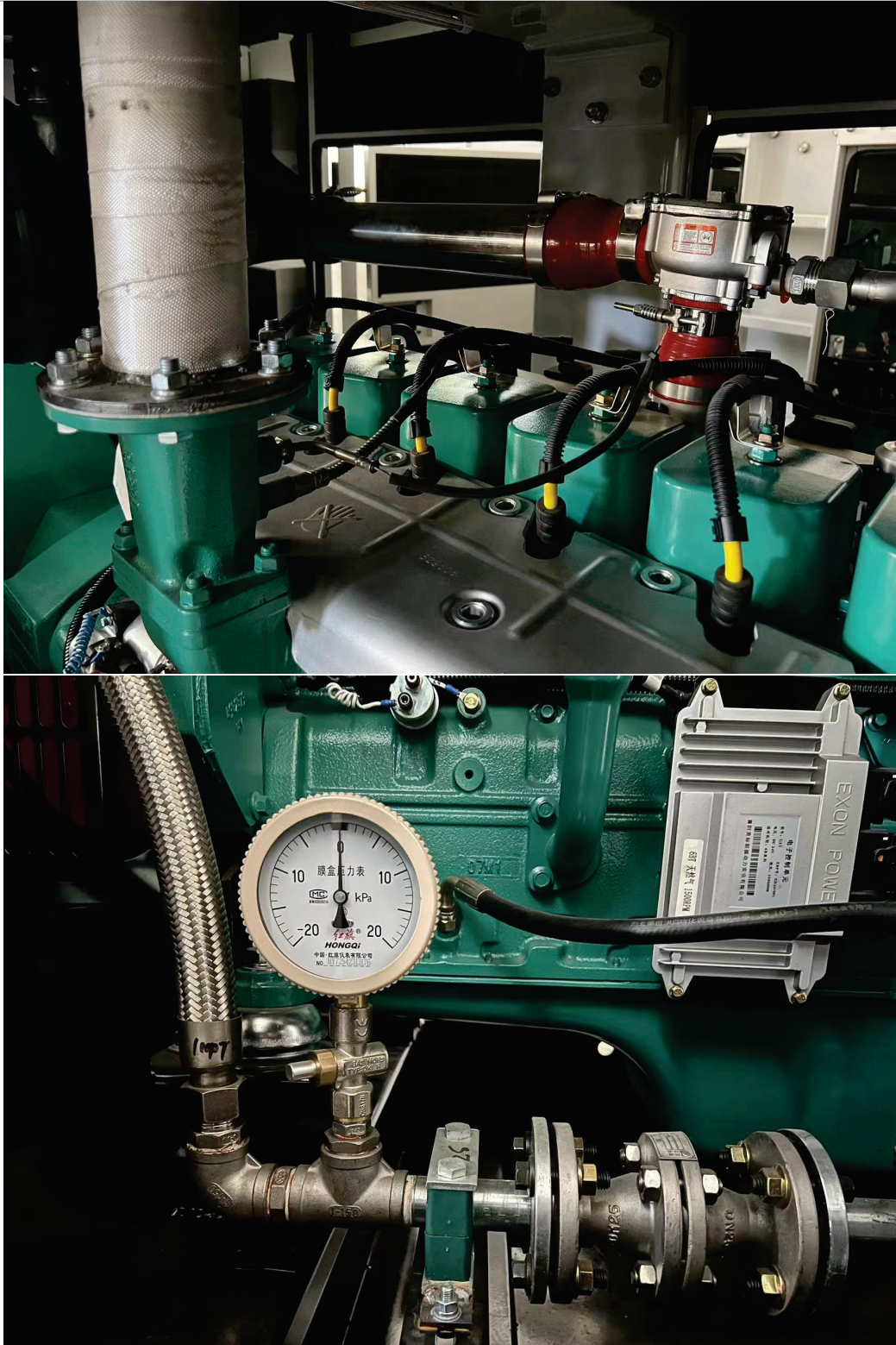
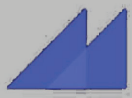
* Rated Voltage: generally the rated power includes 380/220V, 400/230V, 415/240V, 440/254V, 220V/110V we make it according to client's requirements.

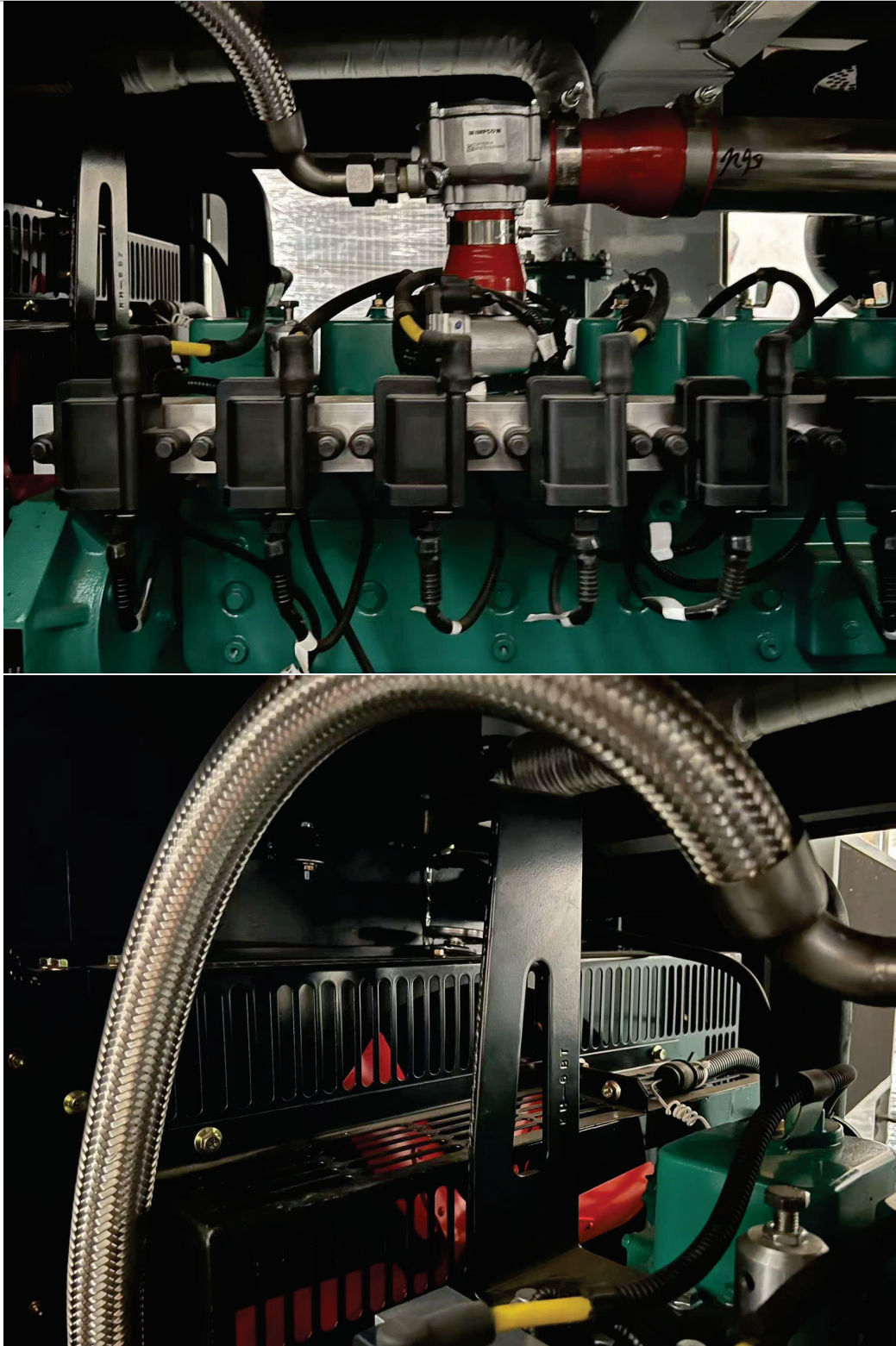
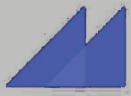
WEIGHT AND DIEMENSIONS

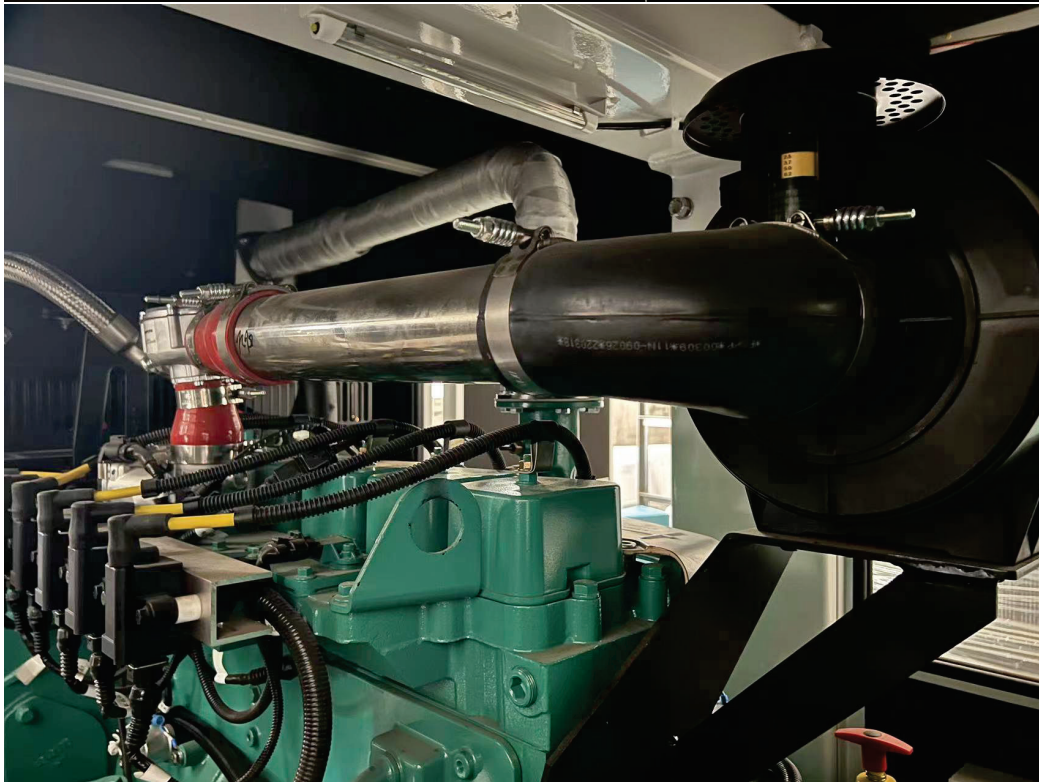
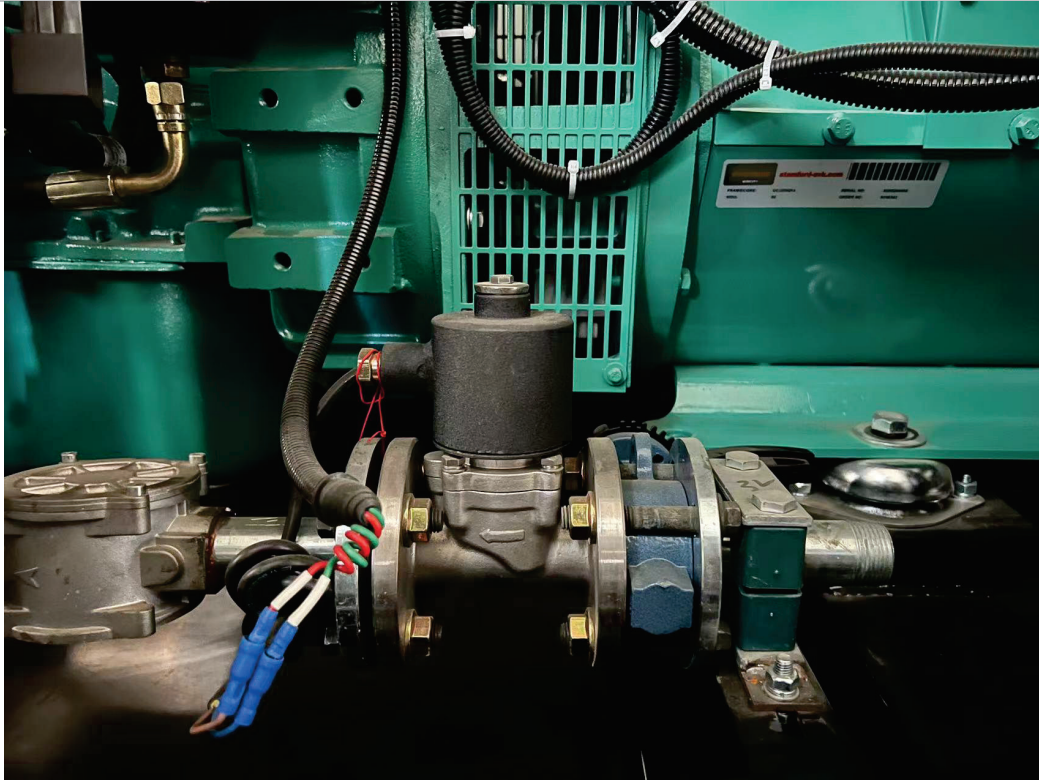
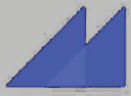
Size of Genset Open Type	1800*750*1200mm
Weight of Genset OpenType	950KG







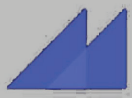




WEIGHT AND DIEMENSIONS

Size of Genset Open Type	2800*1050*1600mm
Weight of Genset OpenType	1500KG





ENGINE DATA	
Engine Model	Cummins LYB3.9-G70
Rated Power	50kW
Engine Type	In-line, Four Stroke, Electronic Ignition
Rated Speed	1500 rpm
Cylinder No.	4 in line
Bore ×Stroke	102×120mm
Displacement	5.9L
Start Method	Electric
Compression Ratio	11.9:1
Crankshaft Rotation Direction	Inverse Hour (From Flywheel)
Cooling Method	Closed Water Cooling
Aspiration Type	Natural
Speed Governor	Electronic
Gas Mixer Formation	Pre-Mix
Rated Fue Consumption (m ³ /Kw·h)	0.3

Alternator Technical Parameters	
Alternator Model	Stamford S1L2-R1
Rated Power	50kW
Standby power	55kW
Power factor	1
Excitation Type	Brushless
Insulation class	Class H
Connection	2 phase
Cooling	Water cooled
Protection Class	IP23
Voltage Regulation Mode	AVR (Automatic)

Gas Required
1) Gas Pressure range 0.8-30kpa; Ambient temperature: <40°C; Sea level: < 1000m; Humidity ratio: <60%.
2) No H ₂ O, H ₂ S<20ppm, Dust<5µm, Tar<10ppm
3) Lubricating oil: 15w/40CD/F suggested.

Electrical performance	
Voltage setting range:	$\geq \pm 5\%$
Steady-state voltage regulation:	$\leq \pm 1\%$
Transient voltage deviation (100% Sudden power reduction)	$\leq +25\%$
Transient voltage deviation (Sudden power plus)	$\leq -20\%$
Voltage stabilization time (100% Sudden power reduction)	$\leq 6S$
Voltage stabilization time (Sudden power plus)	$\leq 6S$
Steady - state frequency regulation	$\leq 1\%$
Frequency fluctuation rate	$\leq 1.5\%$
Transient frequency deviation (100% Sudden power reduction)	$\leq +12\%$
Transient frequency deviation (Sudden power plus)	$\leq -10\%$
Frequency recovery time (100% Sudden power reduction)	$\leq 5S$
Frequency recovery time (Sudden power plus)	$\leq 5S$

CONTROL PANEL	
Deepsea DSE6120	
The control module gives digital readouts of: Generator voltage; Output frequency; Engine speed; Battery voltage; Engine hours run. The control module has indicators for failure information: Over speed/Low speed, Emergency stop Low oil pressure; High water temperature Failure to start Battery charger failure Automatic shutdown occurs under: Low engine oil pressure; High engine water temperature; Over speed/Low speed; Failure to start after three attempts.	

STANDARD ACCESSORIES	Open type	Silent type
Sound-proof & Weather-proof Canopy	N/A	√
Daily base fuel tank. 8 hours capacity	N/A	√
Single-bearing generator again drops	√	√
Intelligent LED display control panel	√	√
Speed governor	√	√
Electric start and 24v charger	√	√
Standard air filter, oil filter, fuel filter	√	√
Cooling water tank	√	√
High-efficient silencer.	√	√
Exhaust elbow	√	√
Storage battery	√	√
Steel base-frame against vibration	√	√
Soft pipe for fuel and handle for lube going-out	√	√
Operation& Maintenance manual.	√	√

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