

# LG500C Powered by Cummins

Model	Frequency/RPM	Standby Power	Prime Power
LG500C	50HZ/1500RPM	400KW	360KW
		500KVA	450KVA

\* Voltages:230/400

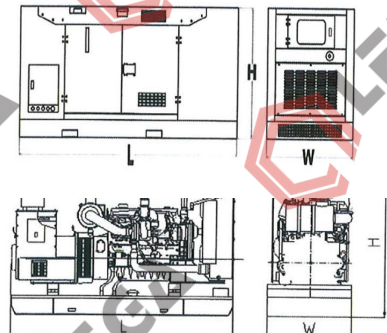
- (1) Prime Power: Ratings are as per DIN 6271,BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude  $\leq 1000m$ , Ambient temperature  $\leq 40^{\circ}C$ .If altitude higher than 1000m, each 300m will cause additional de-rating 4%.

## General Characteristics

Model	LG500C		
Engine	Cummins QSZ13-G3		
Alternator (交流发电机)	HCI544C		
Speed Control Type (转速控制方式)	电控高压共轨喷射		
Phase(相数)	3		
System Voltage (系统电压)	24		
Frequency (频率)	50HZ		
Engine Sped(RPM)	1500		
Controller Model (控制器型号)			

## Dimensions

DIMENSION	OPEN TYPE	SILENT TYPE
Length (L)	3300mm	4350mm
Width (W)	1360mm	1600mm
Height (H)	1860mm	2260mm
Net Weight (KG)	2530kg	4450KG



Engine Specification		
Brand	DONG FENG CUMMINS	
Model	QSZ13-G3	
No. of Cylinders and Cycle	6	
Compression Ratio	17:01	
Displacement (L)	13	
Bore x Stroke (mm)	130*163	
Piston Speed (m/s)	8.15	
Air Intake Flow (m <sup>3</sup> /min)	29.7	
Exhaust Flow (kg/min)	36.5	
Net Engine Weight (kg)	1245	
Starting System		
Engine Coolant Flow (l/s)	366	
Base Output Power (kW)	450	
Fuel Consumption (L/h)	110% load	105.5
	100% load	101
	75% load	74.2
	50% load	48.9
Cooling System	Max.coolant cycling resistance exterior engine(kPA)	75
	Thermostat adjusting temperature (°C )	82-94
	Minimum Pressure of Radiator Cap (kPA)	103
	Coolant capacity-engine only(L)	23.1
Fuel System	Fuel injection pump model	
	Maximum Restriction at Lift Pump (kPa)	13.5
	Maximum Fuel Inlet Temperature (°C )	71
	Total Drain Flow (constant for all loads) (HG/h)	
Lubricating System	Low idle (kPA)	82.7
	Rated speed (kPA)	207-276
	Max. oil temperature permitted in oil pan (°C )	
Exhaust System	Lubrication system Min. capacity (L)	
	Max. Back Pressure (kPA)	13
Electrical System	Starter (V)	24
	Battery charging system (A)	

## Alternator Specification

Poles	No.	4
Connection type (standard)		Series Star
Insulation		Class" H"
Enclosure (according IEC-34-5)		IP23
Exciter system		Self-excited, brushless
Voltage regulator		A.V.R. (Electronic)
Bracket type		Single bearing
Coupling system		Flexible disc
Coating type		Standard (Vacuum impregnation)

\*Alternator meets BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2 and AS1359.

## Options

### Engine

- Jacket Water Preheater
- Oil Preheater

### Generator Sets

- Tools with the machine

### Fuel System

- Low fuel level alarm
- Automatic fuel feeding system
- Fuel T-valves

### Control Panel

- Remote control panel
- ATS
- Remote controller
- Synchronizing controller

### Alternator

- Winding temperature measuring instrument
- Alternator Preheater
- Anti-damp and anti-corrosion treatment
- Anti-condensation heater

### Canopy

- Rental type canopy
- Trailer

### Exhaust System

- Protection board from heat

### Cooling System

- Front heat protection
- Coolant (-30°C)

### Lubricating System

- With machine oil

Note: This drawing is provided for reference only and should not be used for planning installation. Contact your

Standard Controller (ComAp AMF20 or DEEPSEA DSE6020)

Control	<ul style="list-style-type: none"> <li>Auto/Start/Stop Control</li> <li>Emergency Stop Pushbutton/ Alarm</li> <li>Engine Cool Down Timer</li> <li>Warm - up Timer</li> <li>Load Switching Timer</li> <li>Engine Cycle Crank</li> </ul>	
Indications	<ul style="list-style-type: none"> <li>Operating Hours</li> <li>3 Phase Generator Voltage Sensing &amp; Monitoring</li> <li>Current Protection &amp; Monitoring</li> <li>Power Measurement (kW, kVA, kVAr, kWh, kVAh, pf)</li> <li>Frequency Monitoring (Hz)</li> <li>Oil Pressure/Coolant Temperature/Fuel Level Monitoring</li> <li>Battery Voltage Monitoring (DC)</li> <li>Alarm (Acknowledge)</li> </ul>	AMF IntelliLite 9
Warning & Shutdown Alarms	<ul style="list-style-type: none"> <li>Generator Over/Under Voltage &amp; Frequency</li> <li>Crank Disconnect (Failure to Start)</li> <li>Under/Over Speed</li> <li>Over Current</li> <li>Low oil pressure</li> <li>High Water Temperature</li> <li>Low Fuel Level</li> <li>Low Water Level</li> </ul>	
Features	<ul style="list-style-type: none"> <li>IP 65 (if ordered with gasket)</li> <li>Basic Scheduler</li> <li>8 - 35V DC Supply</li> <li>Digital Inputs(4) - Outputs(4 MPU/ 6 CAN)</li> <li>Event Log (5 shutdowns)</li> </ul>	DSE6020

All data is subject to change without notice. Sorry for inform.

Distributed By:

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