



# LG1650C Powered by Cummins

Model	Frequency/RPM	Standby Power	Prime Power
LG1650C	60Hz/1800RPM	1320KW	1200KW
		1650KVA	1500KVA

\* Voltage: 440/254

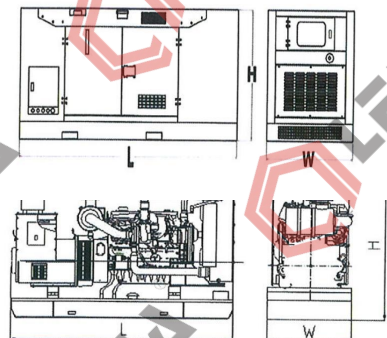
- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude  $\leq$  1000m, Ambient temperature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

## General Characteristics

Model	LG1650C
Engine	Cummins QSK50-G3
Alternator	Stamford or Lega
Speed Control Type	Electrical
Phase	3
System Voltage	24
Frequency	60Hz
Engine Sped(RPM)	1800

## Dimensions

DIMENSION	OPEN TYPE	SILENT TYPE
Length (L)	5000mm	
Width (W)	2030mm	
Height (H)	2440mm	
Net Weight (KG)	9380kg	



Engine Specification		
Brand	Cummins	
Model	QSK50-G3	
No. of Cylinders and Cycle	16V, 4 Stroke	
Compression Ratio	15.0:1	
Displacement (L)	50.3	
Bore x Stroke (mm)	159 x 159	
Piston Speed (m/s)	9.5	
Air Intake Flow (L/s)	2190	
Exhaust Flow (L/s)	5000	
Net Engine Weight (kg)	5410	
Starting System	Electronic	
Engine Coolant Flow (L/s)	34	
Base Output Power (kW)	1395	
Fuel Consumption (L/h)	100% load	346
	75% load	259
	50% load	178
	25% load	103
Cooling System	Max.coolant cycling resistance exterior engine(kPA)	69
	Thermostat adjusting temperature (°C )	82-93
	Minimum Pressure of Radiator Cap (kPA)	96
	Coolant capacity-engine only(L)	140
Fuel System	Fuel injection pump model	Cummins MCRS
	Maximum Restriction at Lift Pump (kPa)	34
	Maximum Fuel Inlet Temperature (°C )	70
	Total Drain Flow (constant for all loads) (L/h)	871
Lubricating System	Low idle (kPA)	138
	Rated speed (kPA)	345-483
	Max. oil temperature permitted in oil pan (°C )	121
	Lubrication system Min. capacity (L)	235
Exhaust System	Max. Back Pressure (kPA)	6.78
Electrical System	Starter (V)	24
	Battery charging system (A)	55

## Alternator Specification

Poles	No.	4
Connection type (standard)		star
Insulation		Class" H"
Enclosure (according IEC-34-5)		IP23
Exciter system		PMG
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, kVA<sub>r</sub>, kWh, kVA<sub>h</sub>, 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.



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