LG165C Powered by Cummins

Model	Frequency/RPM	Standby Power	Prime Power
LG165C	50Hz/1500RPM	132KW	120KW
		165KVA	150KVA

* Voltages Available: 220/380V • 230/400V • 240/415V

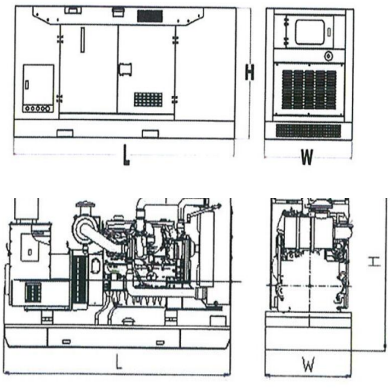
(1) Prime Power: Ratings are as per DIN 6271,BS55114 and ISO-3046 with 10% overload capacity.
(2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
(3) Operation at Altitude ≤1000m, Ambient temperature ≤ 40℃). If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

General Characteristics

Model	LG165C
Engine	Cummins 6BTAA5.9G12
Alternator	Stamford UCI274F
Speed Control Type	Electrical
Phase	3
System Voltage	24
Frequency	50Hz
Engine Sped(RPM)	1500
Controller Model	AMF20

Dimensions

DIMENSION	OPEN TYPE	SILENT TYPE
Length (L)	2400mm	3100mm
Width (W)	950mm	1080mm
Height (H)	1530mm	2000mm
Net Weight (KG)	1360KG	1890KG



Engine Specification

Brand		Cummins
Model		6BTAA5.9G12
No. of Cylinders and Cycle		6L, 4 Stroke
Induction System		NA
Compression Ratio		17.3:1
Displacement (L)		5.9
Bore x Stroke (mm)		102 x 120
Piston Speed (m/s)		6
Air Intake Flow (L/s)		137
Exhaust Flow (L/s)		321
Net Weight (kg)		413
Starting System		Electric
Engine Coolant Flow (L/s)		1.7
Base Output Power (kW)		140
Fuel Consumption (L/h)	110% load	38
	100% load	34
	75% load	26
	50% load	17

Cooling System	Max.coolant cycling resistance exterior engine(kPA)	28
	Thermostat adjusting temperature (℃)	82-95
	Min. opening pressure of radiator cap(kPA)	69
	Coolant capacity-engine only(L)	10
Fuel System	Fuel injection pump model	BYC P7100
	Max. restriction at lift pump (kPa)	13.6
	Max. restriction at the supply side of the injector (kPa)	67.7
	Total drain flow(L/h)	30
Lubricating System	Low idle (kPA)	207
	Rated speed (kPA)	345
	Max. oil temperature permitted in oil pan (℃)	121
	Lubrication system Min. capacity (L)	16.4
Exhaust System	Max. Back Pressure (kPA)	10
Electrical System	Starter (V)	24
	Battery charging system (A)	40

Alternator Specification

Poles	No.	4
Connection type (standard)		Star-series
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
- PMG
- 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℃)

Lubricating System

- With machine oil

Standard Controller (ComAp AMF20 or DEEPSEA DSE6020)

Control	Auto/Start/Stop Control Emergency Stop Pushbutton/ Alarm Engine Cool Down Timer Warm - up Timer Load Switching Timer Engine Cycle Crank
Indications	Operating Hours 3 Phase Generator Voltage Sensing & Monitoring Current Protection & Monitoring Power Measurement (kW, kVA, kVAr, kWh, kVAh, pf) Frequency Monitoring (Hz) Oil Pressure/Coolant Temperature/Fuel Level Monitoring Battery Voltage Monitoring (DC) Alarm (Acknowledge)
Warning & Shutdown Alarms	Generator Over/Under Voltage & Frequency Crank Disconnect (Failure to Start) Under/Over Speed Over Current Low oil pressure High Water Temperature Low Fuel Level Low Water Level
Features	IP 65 (if ordered with gasket) Basic Scheduler 8 - 35V DC Supply Digital Inputs(4) - Outputs(4 MPU/ 6 CAN) Event Log (5 shutdowns)

AMF20

DSE6020

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