

LG80C

Powered by Cummins

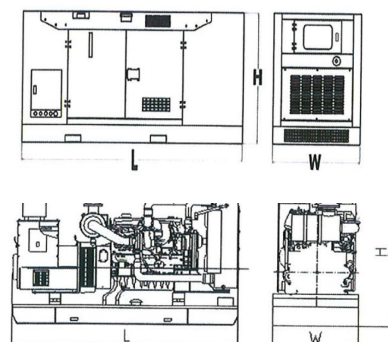
Model	Frequency/RPM	Standby Power	Prime Power
LG80C	50Hz/1500RPM	64KW	58KW
		80KVA	72.5KVA

* 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 $\leq 1000\text{m}$, Ambient temperature $\leq 40^\circ\text{C}$. If altitude higher than 1000m, each 300m will cause additional de-rating 4%.

General Characteristics	
Model	LG80C
Engine	Cummins 4BTA3.9G11
Alternator	Stamford UCI224F
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)	1870mm	2670mm
Width (W)	950mm	1080mm
Height (H)	1500mm	1255mm
Net Weight (KG)	990KG	1500KG



Engine Specification		
Brand	Cummins	
Model	4BTA3.9G11	
No. of Cylinders and Cycle	4L, 4 Stroke	
Compression Ratio	17.3:1	
Displacement (L)	3.9	
Bore x Stroke (mm)	102 x 120	
Piston Speed (m/s)	6	
Air Intake Flow (L/s)	64	
Exhaust Flow (L/s)	125	
Starting System	Electronic	
Engine Coolant Flow (L/s)	TBD	
Base Output Power (kW)	70	
Fuel Consumption (L/h)	110% load	20
	100% load	17.6
	75% load	13.2
	50% load	9.1

Cooling System	Max.coolant cycling resistance exterior engine(kPA)	28
	Thermostat adjusting temperature (°C)	83-95
	Min. opening pressure of radiator cap(kPA)	69
	Coolant capacity-engine only(L)	8.3
Fuel System	Fuel injection pump model	BYC PB
	Max. restriction at lift pump (kPa)	13.6
	Max. fuel inlet temp.(°C)	70
	Total drain flow(L/h)	30
Lubricating System	Low idle (kPA)	207
	Rated speed (kPA)	345
	Max. oil temperature permitted in oil pan (°C)	121
	Lubrication system Min. capacity (L)	10.9
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 <ul style="list-style-type: none"> Jacket Water Preheater Oil Preheater 	Alternator <ul style="list-style-type: none"> Winding temperature measuring instrument Alternator Preheater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater
Generator Sets <ul style="list-style-type: none"> Tools with the machine 	Canopy <ul style="list-style-type: none"> Rental type canopy Trailer
Fuel System <ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feeding system Fuel T-valves 	Exhaust System <ul style="list-style-type: none"> Protection board from heat
Control Panel <ul style="list-style-type: none"> Remote control panel ATS Remote controller Synchronizing controller 	Cooling System <ul style="list-style-type: none"> Front heat protection Coolant (-30°C)
	Lubricating System <ul style="list-style-type: none"> 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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