



## GCLS-60-I

Powered by Cummins

Model	Frequency/RPM	Standby Power	Prime Power
<b>GCLS-60-I</b>	<b>60HZ/1800RPM</b>	<b>60KW</b>	<b>54KW</b>
		<b>75KVA</b>	<b>67.5KVA</b>

\* Voltages: 127/220

(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.

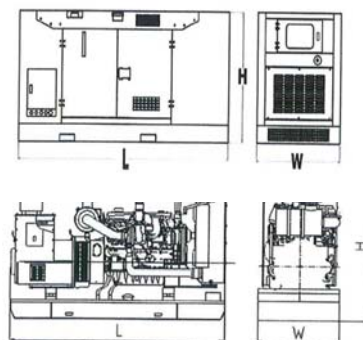
(3) Operation at Altitude  $\leq 1000\text{m}$ , Ambient temperature  $\leq 40^\circ\text{C}$ . If altitude higher than 1000m, each 300m will cause additional de-rating 4%.

### General Characteristics

Model	GCLS-60-I
Engine	Cummins 4BTA3.9-G2
Alternator	LEROY SOMER TAL-A42-H
Speed Control Type	Electrical
Phase	3
System Voltage	24
Frequency	60hz
Engine Sped(RPM)	1800
Controller Model	

### Dimensions

DIMENSION	OPEN TYPE	SILENT TYPE
Length (L)	1900mm	2670mm
Width (W)	925mm	1080mm
Height (H)	1495mm	1875mm
Net Weigh (KG)	985kg	1460kg



### Engine Specification

Brand	DONG FENG CUMMINS	
Model	4BTA3.9-G2	
No. of Cylinders and Cycle	4	
Compression Ratio		
Displacement (L)	3,9	
Bore x Stroke (mm)	102*120	
Piston Speed (m/s)	6	
Air Intake Flow (L/s)	49	
Exhaust Flow (L/s)	125	
Net Engine Weight (kg)	350	
Starting System	electronic	
Engine Coolant Flow (L/s)	1,6	
Base Output Power (kW)	50	
Fuel Consumption (L/h)	110% load	14,1
	100% load	12,9
	75% load	10,1
	50% load	7

Cooling System	Max.coolant cycling resistance exterior engine(kPA)	28
	Thermostat adjusting temperature (°C )	82-95
	Minimum Pressure of Radiator Cap (kPA)	69
	Coolant capacity-engine only(L)	8,3
Fuel System	Fuel injection pump model	BYC A direct injeciton
	Maximum Restriction at Lift Pump (KPA)	102
	Maximum Fuel Inlet Temperature (°C )	
	Total Drain Flow (constant for all loads) (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 (MMHG)	76
Electrical System	Starter (V)	24
	Battery charging system (A)	40

### Alternator Specification

Poles	4
Connection type (standard)	Parallel 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(included)
- Automatic fuel feeding system

#### 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)
- coolant level sensor(included)

#### 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	
Warning & Shutdown Alarms	Battery Voltage Monitoring (DC)	
	Alarm (Acknowledge)	
	Generator Over/Under Voltage & Frequency	
	Crank Disconnect (Failure to Start)	
	Under/Over Speed	
	Over Current	
	Low oil pressure	
	High Water Temperature	
Features	Low Fuel Level	
	Low Water Level	
	IP 65 (if ordered with gasket)	
	Basic Scheduler	
	8 - 35V DC Supply	
	Digital Inputs(4) - Outputs(4 MPU/ 6 CAN)	
	Event Log (5 shutdowns)	

AMF IntelliLite 9

DSE6020