

GCLS-176-I

Powered by Cummins

Model	Frequency/RPM	Standby Power	Prime Power
GCLS-176-I	60HZ/1800RPM	176KW	160KW
		220KVA	200KVA

* 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 1000m, Ambient temperature \leq 40°C). If altitude higher than 1000m, each 300m will cause additional de-rating 4%.

General Characteristics

Model	GCLS-176-I
Engine	Cummins 6CTA8.3-G2
Alternator	Leroy Somer TAL-A46-A
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)	2500mm	3500mm
Width (W)	925mm	1080mm
Height (H)	1650mm	2120mm
Net Weigh (KG)	1655kg	2240kg



Engine Specification

Brand	DONG FENG CUMMINS	
Model	6CTA8.3-G2	
No. of Cylinders and Cycle	6	
Compression Ratio	17.3:1	
Displacement (L)	8,3	
Bore x Stroke (mm)	114*135	
Piston Speed (m/s)	8,1	
Air Intake Flow (L/s)	226	
Exhaust Flow (L/s)	586	
Net Engine Weight (kg)	637	
Starting System		
Engine Coolant Flow (L/s)	4	
Base Output Power (kW)	170	
Fuel Consumption (L/h)	110% load	50
	100% load	44
	75% load	33
	50% load	23

Cooling System	Max.coolant cycling resistance exterior engine(kPA)	
	Thermostat adjusting temperature (°C)	82-95
	Minimum Pressure of Radiator Cap (kPA)	69
	Coolant capacity-engine only(L)	12,3
Fuel System	Fuel injection pump model	direct injectoin
	Maximum Restriction at Lift Pump (kPa)	27
	Maximum Fuel Inlet Temperature (°C)	71
	Total Drain Flow (constant for all loads) (L/h)	
Lubricating System	Low idle (kPA)	103
	Rated speed (kPA)	276-414
	Max. oil temperature permitted in oil pan (°C)	121
	Lubrication system Min. capacity (L)	27,6
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)		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
- 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

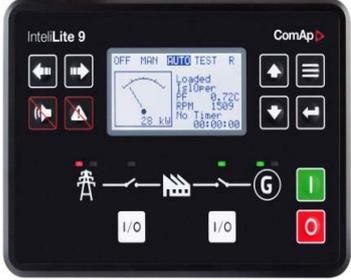
Cooling System

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

Lubricating System

- With machine oil

Standard Controller (ComAp AMF20 or DEEPSEA DSE6020)

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