GFE110CSC (Canopied)



Engine Cummins 6BT5.9-G1	Alternator Stamford UCI 274C	Model GFE110CSC (Canopied)				
50Hz	1500rpm	3-Phase	Power Factor			ssions N/A
Ratings	Prime Power		Standby Power		Rated current	Fuel consumption
Voltage	(PR	(PRP)		(ESP)		@100% load
(V)	kWe	kVA	kWe	kVA	(A)	L/h
400	80	100	88	110	144	21.7
Ratings	All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at unity or 1.0 power factor.					
Prime output	This rating is applicable for supplying continuous electrical power at variable load. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.					
Standby output	This rating is applicable for supplying electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.					

The above ratings are in accordance with ISO8528-1 and ISO3046-1. Standard reference conditions: 25°C, 100m A.S.L., 30% relative humidity.

Engine Cummins 6BT5.9-G1

		Units		
General	Frequency	Hz	50	
performance	Engine speed	r/min	1500	
	Number of cylinders / arrangement		6 cyl / vertical in-line	
	Displacement	Litres	5.9 L	
	Aspiration		Turbocharged	
	Combustion system		Direct injection	
	Governor type		Mechanical	
	Bore / stroke	mm	102 x 120	
	Starter Motor / Charge Alternator (V dc)		24 V DC	
	Engine power (gross)	kWm	Prime: 86 Standby: 92	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour	23.9	
system	Fuel consumption at 100% Prime Power	Litres/hour	21.7	
	Fuel consumption at 75% Prime Power	Litres/hour	16.3	
	Fuel consumption at 50% Prime Power	Litres/hour	10.8	
	12 hour fuel tank capacity	Litres	175	
Air	Air inlet		Mounted air filter	
system	Air filter type		Dry	
Fuel and	Electronically governed		NO	
fuel system	Rotary type pump		N/A	
	Ecoplus fuel filter		YES	
Oil	Total oil system capacity	Litres	16.4	
system	Maximum sump capacity	Litres	14.2	
	Wet sump with filler and dipstick		YES	
	Spin-on oil filter		YES	
Cooling	Total system capacity			
system	- With radiator	Litres	N/A	
,	- Without radiator	Litres	9.9	
	Thermostat operation range	°C	up to 40°C	
	Maximum top tank temperature	°C	N/A	
Electric	Electrical system voltage	V	24	
system	Battery		Maintenance-free	
,	Connecting cables		Included	
Available	Battery charger		Included	
options	Battery isolator switch		Included	
	125 AMP 5 Pin (IP67) Socket Outlet		Optional Extra	

Alternator Stamford UCI274C

Units General Stamford Manufacturer / brand data UCI274C Model Coupling / number of bearings Flexible Disc / Single Bearing Phase / Poles 3-Phase / 4-Pole Cos Φ = 0.8 Power factor AVR Regulation Yes Voltage Regulation ±1 % Insulation class H. Drip proof IP23 Excitation Shunt ≤1000 Altitude m Overspeed 2250 min -1

		Standard:	Optional:	Optional:
Controller model / Deepsea DSE	Optional: DSE4520	Standard: DSE6110/20	DSE7310/20	DSE8610/2
Controller photos				
Standard supply	0	•	0	0
Viewable parameters				
Phase voltage	×	3	3	3
Current	Instrumentation	•	•	•
Frequency	•	•	•	•
Active power	0	•	•	•
Reactive power	0	•	•	•
Apparent power	×	•	•	•
Power factor	0	•	•	•
Electric energy metering	×	•	•	•
Generator protection				
Abnormal voltage	٠	•	•	•
Overcurrent warning	0	•	•	•
Overcurrent protection	•	•	•	•
Over frequency protection	•	•	•	•
Short circuit protection	MCCB / •	MCCB / •	MCCB / •	MCCB / •
Engine figure				
Oil pressure	•	•	•	•
Water temperature	•	•	•	•
Fuel meter / fuel sensor	•/○	•/0	•/0	•/○
Speed	•	•	•	•
Battery voltage	•	•	•	•
Elapsed time	•	•	•	•
Engine protection				
Low oil pressure warning	×	•	•	•
Low oil pressure protection	•	•	•	•
High temperature warning	0	•	•	•
High temperature protection	•	•	•	•
Overspeed warning	×	•	•	•
Overspeed protection	0	•	•	•
Alternator charger	•	•	•	•
Functions				
Remote start	•	•	•	•
AMF (Auto Main Failure)	•	•	•	•
Programmable input	•	•	•	•
Programmable output	•	•	•	•
Expand module	×	0	0	0
Communication function	×	×	RS232 / 484	RS232 / 485
Communication port	USB	USB	RS232 / 484	RS232 / 485
CAN	•	0	•	•
Service indicate	0	0	•	•
Fault history	•	•	•	•
	×	×	×	•
Gen-mains synchronising (20)	×	×	×	•

Remark:

• Standard supply • Available as optional × Not available

"Ensure a quieter life with our sound attenuation system."

Features

Extremely rugged and highly corrosion resistant construction

Unique appearance with high sound absorbing and thermal properties 8-12 hours built-in fuel tank integrated into the skid-mount base Excellent design and craftmanship Full weatherproof enclosure, suitable for operations in harsh condictions Thermo-acoustic installation which can withstand fire, high temperature and severe conditions Residential exhaust muffler manufactured from galvanised steel High quality polyester powder paint Designed on modular principles with interchangable components permitting on-site repairs

Easy commissioning and maintenance

Control panel viewing window with lockable access door for quick, safe and easy monitoring Side doors allowing 180° opening for easy accessibility Lifting point for easy mobility Lube oil drain and radiator drain Internally mounted exhaust silencers constructed to withstand rough conditions

Security and safety

Earth leakage protection

Secure and lockable access doors for fuel fill and battery

Fully guarded cooling fan and battery charging alternator

Emergency stop push button mounted on the enclosure exterior for urgent and safe shutdown

Efficient management of cooling air to avoid high water temperature

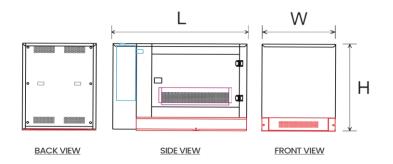
Transportability

Top access lifting points for crane lifting

Fork lift pockets for easy moveability

Overall dimensions, weight and noise

Frame type	Dimensions	Weight	Base tank @100% load		Noise level
	(L x W x H) mm	kg	Hours	Litres	dB(A) at 7m
Canopied	2920 x 1040 x 1430	TBC	8	175	70.5
Open	2850 x 1040 x 1400	TBC	8	175	TBC





Enclosure / Canopy

Sound-attenuated or open option

*Image for reference only. Actual product will differ

Automatic Transfer Switch

A.T.S - 4 Poles

We offer as an optional accessory, not only a changeover switch but also an integrated mains detection and switch system for your 24 hour power protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of a mains automatic retransfer once it comes back.

System advantages

Automatically transfer and re-transfer load from main power to gen-power without operator intervention (both automatic and manual) ATS Controller (AMF function) Available from 32 - 4000A Available in standard, bypass isolation and service-entrance configurations

Configurable in open, closed and programmed transition operating modes

Designed to interface seamlessly with all AMF generators and switchgear

Drip proof IP42 enclosure

Easy installation: wall-mounted and floor standing



*image for illustration purposes only, actual product may differ

Warranty coverage

Generators used with commercial utility source: One (1) year or 1000 hours (whichever occurs first) from date of shipment from the factory or registered start-up date.