

## GFE165CSC

(Canopied)



Engine	Alternator	Model
Cummins	Stamford	GFE165CSC
6BTAA5.9-G12	UCI 274F	(Canopied)

			Power factor	Emissions
50Hz	1500rpm	3-Phase	Factor $\Phi = 0.8$	N/A

Ratings	Prime	Power	Standby	y Power	Rated current	Fuel consumption
Voltage	(Pl	(PRP)		(ESP)		@100% load
(V)	kWe	kVA	kWe	kVA	(A)	L/h
400	120	150	132	165	217	38

400	120	150	132	165	217	38
Ratings		nerator sets are rate enerator sets are rat	•			
Prime	This rating is appl	cable for supplying o	continuous elect	rical power at vai	riable load.	
output	There is no limita	tion to the annual ho	ours of operation	n and this model	can supply	
	10% overload pov	ver for 1 hour in 12	hours.			
Standby output	•	cable for supplying e	•	` '	in the event of a	

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 6BTAA5.9-G12

		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		Electronic	
	Bore / stroke	mm	102 x 120	
	Starter Motor / Charge Alternator (V dc)		24 V DC	
	Engine power (net)	kWm	Prime: 140 Standby: 155	
	Cooling system		Water cooled	
	Rotation		Anti-clockwise viewed on flywheel	
Fuel	Fuel consumption at 110% Prime Power	Litres/hour	34.1	
system	Fuel consumption at 100% Prime Power	Litres/hour	31	
	Fuel consumption at 75% Prime Power	Litres/hour	23.25	
	Fuel consumption at 50% Prime Power	Litres/hour	15.5	
	Standard fuel tank capacity	Litres	450	
Air	Air inlet		Mounted air filter	
system	Air filter type		Dry	
Fuel and	Electronically governed		YES	
fuel system	Rotary type pump		YES	
, , , , , , , , , , , , , , , , , , , ,	Ecoplus fuel filter		YES	
Oil	Total oil system capacity	Litres	16.4	
system	Maximum sump capacity	Litres	N/A	
•	Wet sump with filler and dipstick		YES	
	Spin-on oil filter		YES	
Cooling	Total system capacity	ĺ		
system	- With radiator	Litres	N/A	
•	- Without radiator	Litres	N/A	
	Thermostat operation range	°C	up to 40°C	
	Maximum top tank temperature	°C	N/A	
Electric	Electrical system voltage	V	24	
system	Battery	<u> </u>	Maintenance-free	
.,	Connecting cables		Included	
Available	Battery charger	İ	Included	
options	Engine water heater		Included	
operoris	Battery isolator switch		Included	

## **Alternator**

UCI 274F

		Units	
General	Manufacturer / brand		Stamford
data	Model		UCI 274F
	Coupling / number of bearings		Flexible Disc / Single Bearing
	Phase / Poles		3-Phase / 4-Pole
	Power factor		Cos Φ = 0.8
	AVR Regulation		Yes
	Voltage Regulation		±1 %
	Insulation class		Н
	Drip proof		IP23
	Excitation		Shunt
	Altitude	m	≤1000
	Overspeed	min -1	2250

## **DSE Controller Summary**

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**Remark:** • Standard supply  $\circ$  Available as optional  $\times$  Not available

## **Enclosure / Canopy**

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

Sound-attenuated or open option

#### **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

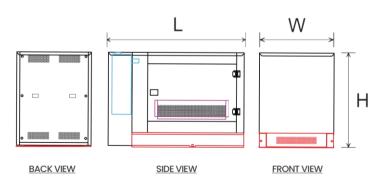
#### **Transportability**

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
	(LxWxH)mm	kg	Hours	Litres	dB(A) at 7m
Canopied	2950×1095×1800	TBC	8	250	70.5
Open					





### **Automatic Transfer Switch**

A.T.S - 4 Poles

GFE offers 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), seamless integration with all GFE ATSs

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 GFE generators and switchgear

Drip proof IP42 enclosure

Easy installation: wall-mounted and floor standing



\*image for illustration purposes only, actual product may differ

## **Warranty**

GFE distributors, dealers or authorized representatives have warranty providing the operator performs a start-up within 6 months of the date of shipment from the factory, warranty coverage will begin on the start-up date (registering the start-up date to GFE within 6 months is essential and can be enforced). This warranty does not apply to malfunction caused by damages, unreasonable use, misuse, repair or service by unauthorized persons, or normal wear and tear. Warranty is supplied strictly in accordance with GFE's terms and conditions of sale and as per the warranty manual available on request.

#### 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.

#### **GFE Power Products Limited**

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