


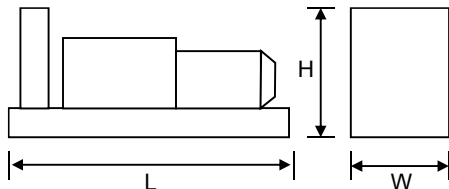
MTU 16V 4000 G23 (FO)	CGT Stamford PI 734	Generator Model: G2200SMU5
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50 Hz	3-Phase	Power Factor Cos Φ = 0.8	Emissions Non-Certified
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RATINGS	PRIME POWER (PRP)		STANDBY POWER (ESP)		
	G2200SMU5				
Voltage	kVA	kWe	kVA	kWe	Amps
415/240	2100	1680	2200	1760	3061
400/230	2100	1680	2200	1760	3175
380/220	2000	1600	2165	1732	3289

Definition of Ratings & Reference Conditions
<p>Prime Power (PRP) is the nominal output continuously available, where the average load (variable) does not exceed 75% of the prime power rating. 10% overload is available for a maximum of 1 hour in 12 hours of operation.</p> <p>Standby Power (ESP) is the maximum output available, for up to 500 hours per year, where the average load does not exceed 85% of the standby power rating. No overload is available.</p> <p>Standard Reference Conditions: air inlet temperature 25°C (77°F), barometric pressure 100kPa, [100m (328ft) altitude], 30% relative humidity.</p> <p>Note: The above ratings may be subject to derate at different operating conditions. Please see the Derate Guidelines on the Broadcrown website.</p> <p>All power ratings and reference conditions in accordance with ISO 8528-1 and ISO 3046-1.</p>

	<p>Key Features:</p> <ul style="list-style-type: none"> • Efficient water cooled diesel engine. • Single bearing CGT Stamford alternator • Radiator with pressure cap and drain point • Fully guarded engine-driven fan • Fully welded steel baseframe with lifting / jacking points • Various fuel system options • Heavy duty rubber anti-vibration mountings • 24V starter batteries and connecting cables • Separate engine-driven battery charging alternator • Spin on oil and fuel filters and dry type air filter element • Auto Start control system with digital instrumentation • Factory Test Certificate • Operation & Maintenance Manual • Wide range of optional extra features available
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Overall Dimensions & Weights - Open Set
Length (L) = 6124mm
Width (W) = 2300mm
Height (H) = 2855mm
Dry Weight (inc oil) = 15036kg
Operating Weight = 15996kg

	Typical Open Generator Sound Pressure Level at 1m, Free Field (dB)							
Overall dBA	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA

All specifications and design are subject to change without notice



G2200SMU5

Jan 2017

ENGINE & COOLING SYSTEM

MTU 16V 4000 G23 (FO)

	SI Units	PRIME	STANDBY
Performance	Engine Speed	1500	
	Gross Power	1798	1978
	Fan Power	38	38
	Net Power	1760	1940
	Emissions Certification	—	
	Altitude Capability	400	400
General	Cylinders / Type	16 cyl / Vee form / 4-stroke	
	Aspiration / Charge Cooling	Turbocharged / 2 pump 2 loop	
	Governing / Engine Management	"ADEC" Electronic Governor/ECU/CANBus	
	Bore / Stroke	170 / 210	
	Cubic Capacity	76.3	
	BMEP	1886	2075
Fuel	Fuel Consumption at 100% Power	404.7	442.9
	Fuel Consumption at 75% Power	308.3	335.7
	Fuel Consumption at 50% Power	216.1	235.4
	Total fuel flow	1200	
	Standard Fuel Tank Capacity	N/A	
Air	Engine Air Flow	2.1	2.3
	Maximum Air Intake Restriction (used filter)	5.0	
Exhaust	Exhaust Gas Flow	5.4	5.8
	Exhaust Gas Temperature	480	485
	Maximum Exhaust Back Pressure	8.5	
	Typical Exhaust Pipe Diameter	350	
Cooling	Radiator Cooling Air Flow	27.4	
	Max Restriction to Cooling Air Flow	250	
	Max Radiator Air-On Temperature	45	
	Maximum Coolant Temperature	102	
	Coolant Capacity - Engine Only	175	
	Total Coolant Capacity	TBA	
Oil	Total Oil Capacity incl Filters	300	
	Typical Oil Pressure at Rated Speed	550	
	Typical Oil Consumption (>250hrs Operation)	1.27	
Thermal	Heat Rejection to Engine Cooling Water	710	730
	Heat Rejection to Charge Cooler	260	320
	Heat Radiated From Engine (Typical)	90	90
Elec	Electrical System Voltage	24	
	Battery Type	TBA	
	Battery Capacity SAE CCA	TBA	

ALTERNATOR

CGT STAMFORD PI 734

	SI Units	PRIME	STANDBY
General Data	Manufacturer	Cummins Generator Technologies - STAMFORD	
	Model (may vary with voltage)	PI 734 F	PI 734 F
	Operating Temperature	40	27
	Coupling / No. of Bearings	Direct / Single Bearing	
	Phase / Poles / Winding Type	3-Phase / 4-Pole / Winding 311	
	Power Factor	Cos Φ = 0.8	
	Excitation	Separately excited by PMG	
	Insulation System	Class H	
	AVR Type	MX 321	
	Voltage Regulation	± 0.5%	

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STANDARD CONTROL SYSTEM

BC 7310 Digital Auto Start

The standard control system for this model is **BC 7310** (photo), based on the Deep Sea Electronics DSE7310 Digital Auto Start controller.

This provides for the manual and automatic remote start of the generator, together with full control and protection of the engine via the ECU. LCD digital display of :

- Coolant temperature with high temperature alarm and shutdown
- Oil pressure with low pressure alarm and shutdown
- Oil temperature, engine operating hours, battery charge volts and amps
- Volts, with Under/Over Volts protection
- Amps, with Over Current protection
- Frequency, kW, kVA, Power Factor

Also featuring :

- Full RS485 Telemetry implementation
- Automatic cool-down timer function
- Emergency Stop button
- Ample auxiliary inputs/outputs for optional features
- Optional (shown) - battery charger and door mounted illuminated switch.



CONTROL SYSTEM OPTIONS

The **BC 7320** control system (just the DSE7320 module is shown here) has an identical feature set to the BC 7310 but with the addition of full AMF functionality with integrated mains monitoring.



Finally, **BC 8610** & **BC 8620** control systems provide the same features as BC 7310 & BC 7320 respectively, plus :

- BC 8610 - Set-to-Set Synchronisation
- BC 8620 - Single Set-to-Mains Supply Synchronisation with integrated mains monitoring

For Multi Set-to-Mains synchronisation, each set requires BC 8610 with the addition of one mains monitoring panel **BC 8660** (not illustrated). See the Synchronisation Guidelines for further details.

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