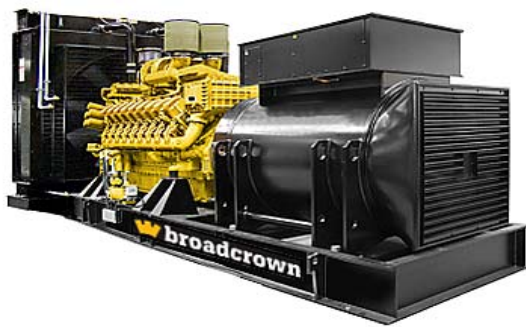


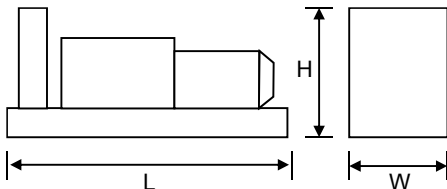
MTU 16V 4000 G63 (FO)	CGT Stamford LVSI 804	Generator Model: <b>G2500SMU5</b>
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50 Hz	3-Phase	Power Factor Cos $\Phi$ = 0.8
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RATINGS	PRIME POWER (PRP)		STANDBY POWER (ESP)		
	G2500SMU5				
Voltage	kVA	kWe	kVA	kWe	Amps
415/240	2250	1800	2500	2000	3478
400/230	2250	1800	2500	2000	3608
380/220	2250	1800	2500	2000	3798

Definition of Ratings & Reference Conditions
<p><b>Prime Power (PRP)</b> 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><b>Standby Power (ESP)</b> 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><b>Standard Reference Conditions:</b> air inlet temperature 25°C (77°F), barometric pressure 100kPa, [100m (328ft) altitude], 30% relative humidity.</p> <p><b>Note:</b> 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><b>Key Features:</b></p> <ul style="list-style-type: none"> <li>• Water cooled MTU diesel engine with ECU/CANBus</li> <li>• Single bearing CGT Stamford alternator</li> <li>• Radiator with pressure cap and drain point</li> <li>• Fully guarded engine-driven fan</li> <li>• Fully welded steel skid base with lifting points</li> <li>• Integral fuel tank with filler cap and gauge</li> <li>• Heavy duty rubber anti-vibration mountings</li> <li>• 24V starter batteries and connecting cables</li> <li>• Separate engine-driven battery charging alternator</li> <li>• Spin on oil and fuel filters and dry type air filter element</li> <li>• Industrial silencer (15dBA reduction) supplied loose</li> <li>• Auto Start control system with digital instrumentation</li> <li>• Main line circuit breaker</li> <li>• Factory Test Certificate</li> <li>• Operation &amp; Maintenance Guide</li> <li>• Wide range of optional extra features available</li> </ul>
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Overall Dimensions & Weights - Open Set
Length (L) = 6080mm
Width (W) = 2310mm
Height (H) = 3220mm
Dry Weight (inc oil) = TBAkg
Operating Weight = TBAkg

	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



G2500SMU5

Jan 2017

ENGINE & COOLING SYSTEM

MTU 16V 4000 G63 (FO)

	SI Units	PRIME	STANDBY	
Performance	Engine Speed	r/min 1500		
	Gross Power	1965	2185	
	Fan Power	48	48	
	Net Power	1917	2137	
	Emissions Certification	—		
	Altitude Capability	m	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	mm 170 / 210		
	Cubic Capacity	litres 76.3		
	BMEP	kPa	2061	2292
Fuel	Fuel Consumption at 100% Power	litres/h	440.0	499.5
	Fuel Consumption at 75% Power	litres/h	333.5	370.8
	Fuel Consumption at 50% Power	litres/h	233.8	253.6
	Total fuel flow	litres/h	840	
	Standard Fuel Tank Capacity	litres	TBA	
Air	Engine Air Flow	m³/s	2.3	2.6
	Maximum Air Intake Restriction (used filter)	kPa	5	
Exhaust	Exhaust Gas Flow	m³/s	5.8	6.6
	Exhaust Gas Temperature	°C	485	490
	Maximum Exhaust Back Pressure	kPa	8.5	
	Typical Exhaust Pipe Diameter	mm	TBA	
Cooling	Radiator Cooling Air Flow	m³/s	27.8	
	Max Restriction to Cooling Air Flow	Pa	196	
	Max Radiator Air-On Temperature	°C	45	
	Maximum Coolant Temperature	°C	102	
	Coolant Capacity - Engine Only	litres	225	
	Total Coolant Capacity	litres	TBA	
Oil	Total Oil Capacity incl Filters	litres	300	
	Typical Oil Pressure at Rated Speed	kPa	420	
	Typical Oil Consumption (>250hrs Operation)	litres/h	1.41	
Thermal	Heat Rejection to Engine Cooling Water	kW	730	800
	Heat Rejection to Charge Cooler	kW	320	410
	Heat Radiated From Engine (Typical)	kW	90	90
Elec	Electrical System Voltage	V	24	
	Battery Type		TBA	
	Battery Capacity SAE CCA	A	TBA	

ALTERNATOR

CGT STAMFORD LVSI 804

	SI Units	PRIME	STANDBY	
General Data	Manufacturer	Cummins Generator Technologies - STAMFORD		
	Model (may vary with voltage)	LVSI 804 R2	LVSI 804 R2	
	Operating Temperature	°C	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	MA330		
	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 CANBus implementation for the 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 7510 & BC 7520** control systems provide the same features as BC 7310 & BC 7320 respectively, plus :

- BC 7510 - Set-to-Set Synchronisation
- BC 7520 - Single Set-to-Mains Supply Synchronisation with integrated mains monitoring

For Multi Set-to-Mains synchronisation, each set requires BC 7510 with the addition of one mains monitoring panel **BC 7560** (not illustrated). See the Synchronisation Guidelines for further details.