



Image is indicative of a diesel generator only and is not specific to the model

WEIGHT AND DIMENSIONS *(For Standard product without fuel)*

Length	mm	4535
Width	mm	1718
Height	mm	2224
Wet Weight	kgs	6,715

DIESEL GENERATOR

POWER OUTPUT

Frequency (Hz)	Phases	Voltage (V)	Prime Power Rating (PRP)		Standby Power Rating (ESP)		Power Factor	Rated Speed (RPM)	Emissions
			kVA	kW	kVA	kW			
50	3	400/230	800	640	850	680	0.8	1500	NON-CERTIFIED

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528

PRIME POWER: is the nominal output continuously available, where the average load (variable) does not exceed 70% of the prime power rating during an operating period of 250 hours. The total operating time at 100% prime power must not exceed 500 hours per year. A 10% overload is available for a maximum of 1 hour in 12 hours of operation and must not exceed a total of 25 hours per year.

STANDBY POWER: is the maximum output available (at variable load), for up to 200 hours per year. The average load (variable) must not exceed 80% of the standby power rating, with less than 25 hours per year at the full standby rating. No overload is available. The genset must not operate, at standby rating, in parallel with the public utility under any circumstances.

ENGINE

1500 RPM		
Net Output Rating (PRP)	kWm	686
Net Output Rating (Standby)	kWm	753
Manufacturer and Model Cummins - QSK23G3		
Fuel Diesel		
Injection Direct		
Aspiration Turbo Charged / Air to Air		
Cylinders 6 Cyl Inline		
Bore and Stroke	mm	170 x 170
Displacement	L	23.150
Cooling Water		
Engine Oil Specification API CH4 15W/40		
Compression Ratio 16.1:1		
Engine Oil Capacity	L	103.00
Coolant Capacity	L	110.00
Governor Electronic		
Air Filter Dry Element		
Engine Oil Consumption	100% Load	1% of fuel consumption

FUEL CONSUMPTION

100% Load Prime	L/h	50Hz	161
75% Load Prime	L/h		121
50% Load Prime	L/h		85
100% Load Standby	L/h		178

AIR SYSTEM

Combustion Air Flow 100% Standby	m ³ /s	50Hz	0.89
Radiator Cooling Air Flow 100% Standby	m ³ /s		13.5
Radiator Duct Allowance	mmwg		13
Limiting Ambient Temperature	°C		50.9

EXHAUST SYSTEM

Maximum Temperature 100% Standby	°C	50Hz	543
Exhaust Gas Flow 100% Standby	m ³ /min		147.8
Maximum Allowed Back Pressure	kPa		10.1
Exhaust Outlet Flange Size	mm	1 x 140	

STARTING SYSTEM

Battery Capacity	CCA	865
Number of Batteries		2
Battery Configuration		Series
Generator DC Voltage	V	24

SOUND PRESSURE

LpA (1m)	50Hz	dB(A)	106
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FUEL SYSTEM

Diesel Specification	BS EN590, BS 2869 Class A2 or ASTM D975 No.2		
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ALTERNATOR - CGT Stamford HCl634G

Poles	4
Winding Configuration	Star
Insulation	Class H
Enclosure	IP23
Exciter System	Seperately excited by PMG
Voltage Regulator	MX321
Steady State Voltage Regulation	+/- 0.5%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Winding Number	312
Alternative Alternator	Δ

ELECTRICAL FEATURES

PMG	●
Anti-Condensation Heater	Δ
Air Circuit Breaker	Δ
Moulded Case Circuit Breaker	Δ
Interconnecting Power Loom	Δ
Earth Fault Protection	Δ
Breaker Tripped Protection	Δ
Synchronisation Upgrade	Δ
Alternative Output Voltages	Δ
Volt Free Contacts	Δ
Emergency Stop Button	●
Standard: ● Not Available: x Optional: Δ	

MECHANICAL FEATURES

Cooling Pack	●
Air Filter	●
Electronic Governor	●
High Coolant Temperature Switch	●
Low Oil Pressure Switch	●
Advanced Coolant Temperature Sensor	●
Advanced Oil Pressure Sensor	●
Lube Oil Temperature Sensor	Δ
Coolant Level Switch	Δ
Radiator Guards	●
Coolant Drain Valve	●
Coolant Heater	Δ
Lube Oil Drain Valve	●
Manual Lube Oil Drain Pump	Δ
Fuel Filter and Water Separator	Δ
Industrial Exhaust Silencer	Δ
Residential Exhaust Silencer	Δ
Critical Exhaust Silencer	Δ
Flexible Exhaust Bellows	Δ
Standard: ● Not Available: x Optional: Δ	

BATTERY FEATURES

Battery Isolator	Δ
Battery Type	Lead Acid
Battery Model	623
Number of Batteries	2
Battery Included	● (Dry)
Battery Charger	Δ
Standard: ● Not Available: x Optional: Δ	

JCB COMMUNICATION AND CONTROL

DSE 7310 - Auto Start	●
DSE 7320 - Auto Start with Mains Sensing	Δ
DSE 2157 - Output Expansion Module	Δ
Standard: ●	Not Available: x
	Optional: Δ

SYNCHRONISATION PANEL (OPTION)

DSE 8610 - Set to Set Synchronisation	Δ
DSE 8620 - Set to Mains Synchronisation	Δ
DSE 8660 (used with 8610 for Multi Set to Mains Synchronisation)	Δ
Standard: ●	Not Available: x
	Optional: Δ

REFERENCE STANDARDS

JCB Generators are CE certified and conform to the following Directives (subject to a country requiring such standard):

- EN 12100, EN 13857, EN 60204
- 2006/42/CE Machinery safety
- 2006/95/EC Low voltage
- 2004/108/CE Electromagnetic compatibility
- 2000/14/EC Sound Power Level (amended by 2005/88/EC)
- 97/68/EC Emissions (amended by 2002/88/EC & 2004/26/EC)
- Power according to ISO 8528 and ISO 3046
- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO 3046
- Ratings may be subject to derate at different operating conditions. Please refer to JCB Power Products for guidance.

Information based on standard specification equipment unless otherwise stated.