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DIESEL GENERATOR STAGE IIIA

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	JCB P
	STAGEIIIA

ELECTRICAL

			Pri	me	Star	ndby	
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Rated Speed (RPM)
50	3	400/230V	18.1	14.5	19.9	16.0	1500
60	3	380/220V	20.0	16.0	22.1	17.7	1800
60	3	220/127V	20.3	16.1	22.3	17.8	1800
60	3	208/127	N/A	N/A	N/A	N/A	1800

POWER FACTOR	
3 Phase	0.8
I Phase	I

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528

Prime: This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchase power. There is no limitation on the annual hours of operation and 10% over load power can be supplied for 1 hour in 12.

Standby: Standby Power (ESP) is the maximum output available, for up to 200 hours per year, where the average load (variable) does not exceed 70% of the standby power rating. No overload is available.

Stage IIIA Models are only emissions compliant at 50Hz Prime Power in accordance with 97-68EC.



50% Load Prime L/h 2.24 100% Load Standby L/h 4.93 100% Load Prime L/h 4.93	FUEL CONCUMPTION			
75% Load Prime	FUEL CONSUMPTION			
50% Load Prime L/h 2.24 100% Load Standby L/h 4.93 100% Load Prime L/h 4.93 75% Load Prime L/h 60Hz 2.59 100% Load Standby L/h 5.42 EXHAUST SYSTEM Maximum Temperature 100% Standby C 540.00 Exhaust Gas Flow 100% Standby m³/min 50Hz 2.01 Maximum Allowed Back Pressure mbar 50.00 Maximum Temperature 100% Standby C 550 Exhaust Gas Flow 100% Standby m³/min 60Hz 2.39 Maximum Allowed Back Pressure mbar 85.00 AIR SYSTEM Intake Air Flow 100% Standby Kg/h 82.00 Total Cooling Air Flow 100% Standby m³/s 50Hz 0.47 Alternator Fan Airflow m³/s 0.09 101.00 Total Cooling Air Flow 100% Standby Kg/h 101.00 Total Cooling Air Flow 100% Standby Kg/h 101.00 Total Cooling Air Flow 100% Standby Kg/h 101.00 Total Cooling Air Flow 100% Standby Kg/h <td< td=""><td>100% Load Prime</td><td>L/h</td><td></td><td>4.45</td></td<>	100% Load Prime	L/h		4.45
50% Load Prime L/h 100% Load Standby L/h 100% Load Prime L/h 4.93 100% Load Prime L/h 50% Load Prime L/h 60Hz 50% Load Prime L/h 50% Load Prime L/h 4.93 60Hz 50% Load Prime L/h 4.93 60Hz 50% Load Prime L/h 4.93 60Hz 50% Load Prime 10% Standby 10% Standby 10% Standby 10% Standby 10% Load Riflow 10% Standby 10% Load Riflow 10% Standby 10% Load Cooling Air Flow 100% Standby 10% Load Cooling Air Flow 100% Standby 10% Load Cooling Air Flow 100% Standby 10% Load Prime 10% Load Riflow 10% Load Prime 10% Standby 10% Load Prime 10% Load Prime 10% Standby 10% Load Prime 10% Standby 10% Load Riflow 10% Load Riflow 10% Standby 10% Load Riflow 10% Standby 10% Load Riflow 10% Load Riflow 10% Standby 10% Load Riflow 10% Load Rif	75% Load Prime	L/h	5∩⊔-	3.29
100% Load Prime	50% Load Prime	L/h	JOI 12	2.24
75% Load Prime 50% Load Prime L/h 2.59 100% Load Standby L/h 5.42 EXHAUST SYSTEM Maximum Temperature 100% Standby Exhaust Gas Flow 100% Standby Maximum Temperature 100% Standby Maximum Allowed Back Pressure Maximum Temperature 100% Standby Maximum Allowed Back Pressure Ma	100% Load Standby	L/h		4.93
50% Load Prime L/h 50% Load Standby L/h 5.42 EXHAUST SYSTEM Maximum Temperature 100% Standby Exhaust Gas Flow 100% Standby Maximum Temperature 100% Standby Maximum Allowed Back Pressure Maximum Temperature 100% Standby Maximum Temperature 100% Standby Maximum Temperature 100% Standby Maximum Temperature 100% Standby Exhaust Gas Flow 100% Standby Maximum Allowed Back Pressure Maximum A	100% Load Prime	L/h		4.93
50% Load Prime L/h 2.59 100% Load Standby L/h 5.42 EXHAUST SYSTEM Maximum Temperature 100% Standby °C 540.00 Exhaust Gas Flow 100% Standby m³/min 50Hz 2.01 Maximum Allowed Back Pressure mbar 50.00 Maximum Temperature 100% Standby °C 550 Exhaust Gas Flow 100% Standby m³/min 60Hz 2.39 Maximum Allowed Back Pressure mbar 85.00 AIR SYSTEM Intake Air Flow 100% Standby Kg/h 82.00 Total Cooling Air Flow 100% Standby m³/s 50Hz 0.47 (@ 15.3 mm H₂0 Canopy Depression) m³/s 0.09 0.09 Intake Air Flow 100% Standby Kg/h 101.00 0.09 Intake Air Flow 100% Standby Kg/h 101.00 0.57 Total Cooling Air Flow 100% Standby m³/s 60Hz 0.57	75% Load Prime	L/h	/ 01 l=	3.73
EXHAUST SYSTEM Maximum Temperature 100% Standby Exhaust Gas Flow 100% Standby Maximum Allowed Back Pressure Maximum Temperature 100% Standby Maximum Temperature 100% Standby C Exhaust Gas Flow 100% Standby Exhaust Gas Flow 100% Standby Maximum Allowed Back Pressure Maximum Temperature 100% Standby Maymin Ma	50% Load Prime	L/h	60HZ	2.59
Maximum Temperature 100% Standby Exhaust Gas Flow 100% Standby Maximum Allowed Back Pressure Maximum Temperature 100% Standby Maximum Temperature 100% Standby Exhaust Gas Flow 100% Standby Maximum Allowed Back Pressure Maximum Temperature 2.01 50Hz Maximum Allowed Back Pressure Maximum Allowed Back	100% Load Standby	L/h		5.42
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Maximum Temperature 100% Standby Exhaust Gas Flow 100% Standby Maximum Allowed Back Pressure Maximum Temperature 100% Standby (80,100) Maximum Temperature 100% Standby (81,100) Maximum Temperature 100% Standby (91,100) Maximum Temperature 100% Standby (101,00) Maximum Temperature 100% Standby Maximum Allowed Back Pressure Maximu	Exhaust Gas Flow 100% Standby	m³/min	50Hz	2.01
Exhaust Gas Flow 100% Standby Maximum Allowed Back Pressure mbar Maximum Allowed Back Pressure mbar 60Hz 2.39 85.00 AIR SYSTEM Intake Air Flow 100% Standby (@ 15.3 mm H ₂ 0 Canopy Depression) Alternator Fan Airflow Intake Air Flow 100% Standby Misser Standb	Maximum Allowed Back Pressure	mbar		50.00
Maximum Allowed Back Pressure mbar 85.00 AIR SYSTEM Intake Air Flow 100% Standby Total Cooling Air Flow 100% Standby (@ 15.3 mm H ₂ 0 Canopy Depression) Alternator Fan Airflow Intake Air Flow 100% Standby Maximum Allowed Back Pressure Maximum Allowed Back Pressure 85.00 82.00 70.47 82.00 70.47 82.00 70.47 82.00 10.47 10.09 Intake Air Flow 100% Standby Total Cooling Air Flow 100% Standby (@ 24 mm H ₂ 0 Canopy Depression) Maximum Allowed Back Pressure 85.00	Maximum Temperature 100% Standby	°C	60Hz	550
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Intake Air Flow 100% Standby Total Cooling Air Flow 100% Standby (@ 15.3 mm H ₂ 0 Canopy Depression) Alternator Fan Airflow Intake Air Flow 100% Standby Intake Air Flow 100% Standby Total Cooling Air Flow 100% Standby (@ 24 mm H ₂ 0 Canopy Depression) Kg/h 101.00 M³/s 60Hz 0.57	Maximum Allowed Back Pressure	mbar		85.00
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Intake Air Flow 100% Standby Kg/h 101.00 Total Cooling Air Flow 100% Standby (@ 24 mm H_20 Canopy Depression) m^3/s 60Hz 0.57	,	m³/s	50Hz	0.47
Total Cooling Air Flow 100% Standby (@ 24 mm H_20 Canopy Depression) m^3/s 60Hz 0.57	Alternator Fan Airflow	m ³ /s		0.09
(@ 24 mm H ₂ 0 Canopy Depression) m ² /s 60Hz 0.57	Intake Air Flow 100% Standby	Kg/h		101.00
Alternator Fan Airflow m³/s 0.10		m³/s	60Hz	0.57
	• • • • • • • • • • • • • • • • • • • •	m³/s		0.10

ENGINE				
	1500 R	PM		
Gross Engine Power (PRP)	kW	17.30		
Gross Engine Power (Standby)	kW	19.00		
	1800 R	PM		
Gross Engine Power (PRP)	kW	19.10		
Gross Engine Power (Standby)	kW	21.00		
Manufacturer and Model		JCB by Kohler KDI 1903 M		
Fuel		Diesel		
Injection		Direct		
Aspiration		Naturally Aspirated		
Cylinders		3		
Bore and Stroke	mm	88 x 102		
Displacement	L	1.861		
Cooling		Water		
Engine Oil Specification		API CH4-SAE 10W40		
Compression Ratio		11.5 : 1		
Engine Oil Capacity	L	8.90		
Coolant Capacity	L	6.80		
Governor		Mechanical		
Air Filter		Single paper element		
Engine Oil Consumption	100% Load	0.1% of fuel consumed		
FUEL SYSTEM				
Diesel Specification		EN590		



Poles		4
		·
Winding Connections		Star
Insulation		Class H
Enclosure		IP23
Exciter System		Self-regulating brushless
Voltage Regulator		AVR
Steady State Voltage Regulation		+/- 1.0%
Bearing		Single bearing sealed
Coupling		Flexible disc
Cooling	Dire	ect drive centrifugal blower fan
Coating		Winding Protection Grey
STARTING SYSTEM		
Starter Motor	kW	2.00
Battery Capacity	Ah	110
Auxiliary Voltage	V	12

BATTERY FEAT	URES			
Battery Isolator				Δ
Battery Type (Option	onal)			Sealed Lead Acid
Battery Size (Ah)				110
Number of Batterie	es			1
Battery Charger				Δ
	Standard: ●	Not Available: x	Optional: Δ	

MECHANICAL FEATURES	
Cooling Pack	•
Air Filter	•
Mechanical Governor	•
Electronic Governor	X
Low Oil Pressure Switch	•
High Coolant Temperature Switch	•
Oil Temperature Sender	X
Radiator Guards	•
Hot Component Guards	Δ
Water Jacket Heater	Δ
Pre-Filter with Separator	•
Internal Fuel Fill	•
3 Way Fuel Valve with Quick Connector	Δ
Industrial Silencer	•
Bunded Base	Δ
Gravity Oil Drain Pipe	Δ
Larger Fuel Filler Neck	X
Standard: • Not Available: x Optional: A	Δ



ELECTRICAL FEATURES			
AVR DSR			•
AVR DER			X
Winding Protection Standard			X
Winding Protection Standard +			X
Winding Protection Grey			•
Winding Protection Total			X
Winding Protection Total +			X
MAUX			•
PMG			X
Anti-Condensation Heater			Δ
3 Pole Moulded Case Circuit Breaker			•
4 Pole Moulded Case Circuit Breaker			Δ
Earth Leakage Protection (Shunt Trip)			•
Preparation for Earth Connection			•
Optional Voltages			Δ
Synchronisation			X
Emergency Stop Button			•
Fuel Level Sensor			•
Standard: ●	Not Available: x	Optional: Δ	

JCB COMMUNICATION AND CONTROL	
DSE 4520	•
DSE 7320	X
DSE 8610	X
Live Link For Power	Δ
CE PACK (Optional)	
EMC Certification	•
Hot Guards	•
Belt Guards	•
Earth Leakage Relay	•
Sound Power Decal	•
EU Declaration for Engine Emissions	•
Complete Machine Declaration of Conformity	•
Standard: ● Not Available: x C	Optional: Δ

REFERENCE STANDARDS

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

- EN 12100, EN13857, EN60204
- 2006/42/CE Machinery safety
- 2006/95/EC Low voltage
- 2004/I 08/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 ISO3046
 Information based on standard specification equipment unless otherwise stated.



WEIGHT AND DIMENSIONS – OPEN SET			
Length	mm	1650	
Width	mm	650	
Height	mm	1200	
Shipping Volume (sea ready)	m ³	1.29	
Weight*	Kg	590	
*Standard build with all fluids except fuel			

WEIGHT AND DIMENSIONS – CANOPY SET			
Length	mm	1750	
Width	mm	790	
Height	mm	1350	
Shipping Volume (sea ready)	m ³	1.87	
Weight*	Kg	800	
*Standard build with all fluids except fuel			

SOUND PRESSURE (CANOPY ONLY)				
LpA (7m)	50Hz	dB(A)	63	

FUEL SYSTEM		
Diesel Specification		EN590
Fuel Tank Capacity - Open	L	80
Fuel Tank Capacity - Canopy	L	53

CANOPY FEATURES	
Lockable Maintenance Access Doors	•
Control Panel Viewing Window	•
Fork Pockets	Δ
Single Lift Point	Δ
Bunding	Δ
High Density Fire Retardant Foam	•
Yellow Paint	•
White Paint	Δ
Four Point Lift (non CE)	Δ
Residential Silencer	•
Door Stops	Δ
Canopy Bump Stops	Δ
Manual Oil Drain Pump	Δ
1x32A 3 Phase / 1x16A 1 Phase Socket Box	Δ
Ix63A 3 Phase / 3x32A Phase Socket Box	X
1x63A 3 Phase / 1x32A Phase / 2x16A Phase Socket Box	X
1x32A 3 Phase / 2x16A Phase Socket Box	X
IxI25A 3 Phase / Ix63A 3 Phase / 3x32A 3 Phase / 3x32A I Phase Socket Box	X
External Emergency Stop Button	•
Standard: ● Not Available: x Optional: △	Δ