



DIESEL GENERATOR **STAGE V**

ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	kVA	Prime		Standby		Rated Speed (RPM)
				kW	kVA	kW	kVA	
50	3	400/230V	18	15	20	16	1500	
60	3	480/277V	N/A	N/A	N/A	N/A	1800	

POWER FACTOR

3 Phase	0.8
1 Phase	1

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 500 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.

JCB GENERATOR TECHNICAL SPECIFICATIONS. Tel: +44 (0)1889 272200. www.jcbgenerators.com. JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories.

CANOPY		
Lockable Maintenance Access Doors		●
Control Panel Viewing Window		●
Oversized Fork Pockets		●
Single Lift Point		●
Bunding		●
4 Point Tie Down		●
High Density Fire Retardant Foam		●
Yellow Paint		Δ
White Paint		●
Heavy Duty Rental Base		●
Drag Bar		x
Galvanised Steel Canopy		●
Standard: ● Not Available: x Optional: Δ		

ALTERNATOR ECP28-2L/4	
Poles	4
Winding Connections	Star
Insulation	Class H
Enclosure	IP24
Exciter System	Self-regulating brushless
Voltage Regulator	AVR
Steady State Voltage Regulation	+/- 1%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Total Protection +

STARTING SYSTEM		
Battery Capacity	Ah	110
Number of Batteries		1
Auxiliary Voltage	V	12

ENGINE		
1500 RPM		
Net Output Rating (PRP)	kW	17
Net Output Rating (Standby)	kW	19
1800 RPM		
Net Output Rating (PRP)	kW	N/A
Net Output Rating (Standby)	kW	N/A
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	1.86 l
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		
		Paper Element
Engine Oil Consumption		
	100% Load	0.1% of fuel consumed

FUEL SYSTEM		
Diesel Specification		EN590
Standard Capacity Fuel Tank		L
		100

FUEL CONSUMPTION

Load Condition	Unit	Frequency	Consumption
100% Load Prime	L/h	50Hz	4.45
75% Load Prime	L/h		3.29
50% Load Prime	L/h		2.24
100% Load Standby	L/h		4.93
100% Load Prime	L/h	60Hz	N/A
75% Load Prime	L/h		N/A
50% Load Prime	L/h		N/A
100% Load Standby	L/h		N/A

EXHAUST SYSTEM

Maximum Temperature 100% Standby	°C	50Hz	540.00
Exhaust Gas Flow 100% Standby	m ³ /min		2.01
Maximum Allowed Back Pressure	kPa		5.00
Exhaust Discharge Size	mm	45	

AIR SYSTEM

Intake Air Flow 100% Standby	m ³ /h	50Hz	82
Total Cooling Air Flow 100% Standby	m ³ /s		0.47

SOUND PRESSURE

LpA (7m)	50Hz	dB(A)	63 (provisional)
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MECHANICAL FEATURES

Cooling Pack	●
Air Filter	●
Mechanical Governor	●
Low Oil Pressure Switch	●
Coolant Temperature Sender	●
Oil Temperature Sender	●
Radiator Guards	●
Hot Component Guards	●
Manual Oil Drain Pump (Canopy)	Δ
Water Jacket Heater	Δ
Pre-Filter with Separator	●
Fuel Level Sender	●
Internal Fuel Fill	●
3 Way Fuel Valve	●
Residential Silencer	●
Air Shut-Off Valve	x
Electronic Governor	x
Spark Arrestor	x

Standard: ● Not Available: x Optional: Δ

ELECTRICAL FEATURES

AVR DSR	●
AVR DER	x
Winding Protection Standard	x
Winding Protection Standard +	x
Winding Protection Grey	x
Winding Protection Total	x
Winding Protection Total +	●
MAUX	●
PMG	Δ
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker	x
4 Pole Moulded Case Circuit Breaker	●
Earth Leakage Protection (Switchable)	Δ
Preparation for Earth Spike	●
Optional Voltages	Δ
Emergency Stop Button (Control Panel)	●
External Emergency Stop Button	●
AGM Battery	Δ
Socket Panel (1 x 32A – 3ph, 1 x 32A – 1ph, 1 x 16A – 1ph) IP44	Δ
Socket Panel (1 x 63A – 3ph, 3 x 32A – 1ph) IP44	x
Socket Panel (1 x 63A – 3ph, 1 x 32A – 3ph, 3 x 32A – 1ph) IP44 (1 x 125A – 3ph) IP67	x
Bund Alarm / Shut down	Δ
50Hz / 60Hz Switch	x

Standard: ● Not Available: x Optional: Δ

BATTERY FEATURES

Battery Isolator	●
Battery Type	Sealed Lead Acid
Battery Charger	Δ

JCB COMMUNICATION AND CONTROL

DSE 7320	●
DSE 8610 synchronising controller	x
LiveLink for Power	Δ

Standard: ● Not Available: x Optional: Δ

WEIGHT AND DIMENSIONS

Length	mm	1948
Width	mm	835
Height	mm	1423
Shipping Volume (sea ready)	m ³	2.30
Weight*	Kg	950

*Standard build with all fluids except fuel

CE PACK

EMC Certification	●
Hot Guards	●
Belt Guards	●
Sound Power Decal	●
EU Declaration for Engine Emissions	●
Complete Machine Declaration of Conformity	●

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, EN60204
- 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 ISO3046

Information based on standard specification equipment unless otherwise stated.