



DIESEL GENERATOR

STAGE IIIA

ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	kVA	Prime		Standby		Rated Speed (RPM)
				kW	kVA	kW	kVA	
50	3	400/230V	100	80	110	88	1500	
60	3	380/220V	100	80	110	88	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	●
Bundling	●
4 Point Tie Down	●
High Density Fire Retardant Foam	●
Yellow Paint	Δ
White Paint	●
Heavy Duty Rental Base	●
Drag Bar	Δ
Galvanised Steel Canopy	●
Standard: ● Not Available: x Optional: Δ	

ALTERNATOR ECP34-2S4 A

Poles	4
Winding Connections	Star
Insulation	Class H
Enclosure	IP23
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	120
Number of Batteries		1
Auxiliary Voltage	V	12

ENGINE

		1 500 RPM	
Net Output Rating (PRP)	kW	88	
Net Output Rating (Standby)	kW	93	
		1 800 RPM	
Net Output Rating (PRP)	kW	N/A	
Net Output Rating (Standby)	kW	N/A	
Manufacturer and Model			JCB 448 G-TCA 92
Fuel			Diesel
Injection			Direct
Aspiration			Turbo Charged
Cylinders			4
Bore and Stroke		mm	103 x 135
Displacement		L	4.77
Cooling			Water
Engine Oil Specification			API CH4-SAE 10W40
Compression Ratio			18 : 1
Engine Oil Capacity		L	15.00
Coolant Capacity		L	16.00
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	280

FUEL CONSUMPTION

Load Condition	Unit	Frequency	Consumption
100% Load Prime	L/h	50Hz	23.50
75% Load Prime	L/h		17.80
50% Load Prime	L/h		12.50
100% Load Standby	L/h		26.50
100% Load Prime	L/h	60Hz	24.40
75% Load Prime	L/h		18.40
50% Load Prime	L/h		12.90
100% Load Standby	L/h		26.50

EXHAUST SYSTEM

Maximum Temperature 100% Standby	°C	50Hz	548.00
Exhaust Gas Flow 100% Standby	m ³ /min		18.86
Maximum Allowed Back Pressure	kPa		10.00
Exhaust Discharge Size	mm	100	

AIR SYSTEM

Intake Air Flow 100% Standby	m ³ /h	50Hz	402
Total Cooling Air Flow 100% Standby	m ³ /s		3.30

SOUND PRESSURE

LpA (7m)	50Hz	dB(A)	67
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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	Δ
Electronic Governor	x
Spark Arrestor	Δ

Standard: ● Not Available: x Optional: Δ



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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	x
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	Δ
Bund Alarm / Shut down	Δ
50Hz / 60Hz Switch	Δ
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	Δ
LiveLink for Power	●
Standard: ● Not Available: x Optional: Δ	

WEIGHT AND DIMENSIONS

Length	mm	3334
Width	mm	1200
Height	mm	1912
Shipping Volume (sea ready)	m ³	7.70
Weight*	Kg	2120

*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, EN13857, 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.