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is for illustration purpose only	-						
DIESEL	GENERATOR	FUEL OPTIMI	SED				
CTRICAL							
			Pr	rime	Stan	dby	
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Rated Speed (RPM)
50	3	400/230V	40.7	32.5	44.8	35.8	1500
60	3	380/220V	N/A	N/A	N/A	N/A	1800
60	3	220/127V	N/A	N/A	N/A	N/A	1800
60	3	208/120V	N/A	N/A	N/A	N/A	1800

POWER FACTOR	
3 Phase	0.8
l Phase	

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.

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FUEL CONSUMPTION 100% Load Prime L/h 9.33 75% Load Prime L/h 50Hz 7.06 50% Load Prime L/h 10.20 10.20 100% Load Standby L/h 10.20 10.20 100% Load Standby L/h N/A N/A 75% Load Prime L/h N/A N/A 50% Load Prime L/h 60Hz N/A 100% Load Standby L/h N/A N/A 100% Load Standby Maximum Temperature 100% Standby S0Hz 2.71 Maximum Allowed Back Pressure mbar 80.00 N/A Exhaust Gas Flow 100% Standby m ³ /min 60Hz N/A Maximum Allowed Back Pressure mbar N/A N/A Maximum Allowed Back Pressure				
75% Load Prime L/h 50Hz 7.06 50% Load Prime L/h 10.20 10.20 100% Load Standby L/h 10.20 100% Load Prime L/h N/A 75% Load Prime L/h 60Hz N/A 50% Load Prime L/h N/A N/A 50% Load Prime L/h 60Hz N/A 100% Load Standby L/h N/A N/A 100% Load Standby L/h 80.01 N/A 100% Load Standby m ^{3/} min 50Hz 530.00 ExHAUST SYSTEM mbar 50Hz 2.71 Maximum Temperature 100% Standby m ^{3/} min 50Hz 2.71 Maximum Allowed Back Pressure mbar 80.00 N/A Maximum Allowed Back Pressure mbar 60Hz N/A Maximum Allowed Back Pressure mbar 0/A N/A Maximum Allowed Back Pressure mbar 0/A N/A Maximum Allowed Back Pressure mbar 0/A N/A <th>FUEL CONSUMPTION</th> <th></th> <th></th> <th></th>	FUEL CONSUMPTION			
50% Load PrimeL/h50Hz4.84100% Load StandbyL/h10.20100% Load PrimeL/hM/A75% Load PrimeL/h60HzN/A50% Load PrimeL/hN/A50% Load PrimeL/hN/A100% Load StandbyL/hN/A100% Load StandbyL/hN/A100% Load StandbyL/hN/A100% Load StandbyC530.00ExthaUST SYSTEMSOHz2.71Maximum Temperature 100% Standby°C50HzMaximum Allowed Back Pressurembar80.00Maximum Temperature 100% Standby°CN/AMaximum Temperature 100% Standby°CN/AMaximum Allowed Back PressurembarN/AMaximum Allowed Back PressurembarN/AN/AN/AMaximum Allowed Back PressurembarN/AN/AMaximum Allowed Back PressureN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN	100% Load Prime	L/h		9.33
50% Load PrimeL/h4.84100% Load StandbyL/h10.20100% Load PrimeL/hN/A75% Load PrimeL/h60Hz50% Load PrimeL/hN/A50% Load PrimeL/hN/A100% Load StandbyL/hN/A100% Load StandbyL/hN/A100% Load StandbyC530.00EXHAUST SYSTEMMaximum Temperature 100% Standby°C530.00Exhaust Gas Flow 100% Standby°C2.71Maximum Allowed Back Pressurembar80.00Maximum Temperature 100% Standby°CN/AExhaust Gas Flow 100% Standby°CN/AMaximum Allowed Back Pressurembar60HzN/AN/AN/AExhaust Gas Flow 100% Standby°CExhaust Gas Flow 100% Standby°CExhaust Gas Flow 100% Standbym³/min60HzN/AMaximum Allowed Back PressurembarN/AN/AMaximum Allowed Back Pressurembar	75% Load Prime	L/h	50Hz	7.06
100% Load PrimeL/hN/A75% Load PrimeL/hA50% Load PrimeL/hA50% Load PrimeL/hN/A100% Load StandbyL/hN/AEXHAUST SYSTEMMaximum Temperature 100% Standby°CExhaust Gas Flow 100% Standbym³/min50HzMaximum Allowed Back Pressurembar80.00Maximum Allowed Back PressurembarAN/AMaximum Allowed Back PressurembarAN/AMaximum Allowed Back PressurembarAN/AMaximum Allowed Back PressurembarN/AMaximum Allowed Back PressurembarAN/AMaximum Allowed Back PressurembarN/AMaximum Allowed Back PressureMbarMaximum Allowed Back PressureMbarMaxi	50% Load Prime	L/h		4.84
75% Load PrimeL/hA50% Load PrimeL/hA100% Load StandbyL/hN/A100% Load StandbyL/hN/AEXHAUST SYSTEMMaximum Temperature 100% StandbyOCExhaust Gas Flow 100% Standbym ^{3/} min50HzMaximum Allowed Back PressurembarMaximum Temperature 100% StandbyOCMaximum Temperature 100% StandbyN/AMaximum Allowed Back PressurembarMaximum Temperature 100% StandbyN/AMaximum Temperature 100% StandbyN/AMaximum Allowed Back PressurembarMaximum Allowed Back Pressurembar	100% Load Standby	L/h		10.20
50% Load PrimeL/h60HzN/A50% Load PrimeL/hN/A100% Load StandbyL/hN/AEXHAUST SYSTEMMaximum Temperature 100% Standby°CAExhaust Gas Flow 100% Standbym³/min50Hz2.71Maximum Allowed Back Pressurembar80.00Maximum Temperature 100% Standby°CAN/AExhaust Gas Flow 100% Standby°CAN/AMaximum Temperature 100% Standby°CN/AN/AExhaust Gas Flow 100% Standbym³/min60HzN/AMaximum Allowed Back PressurembarN/AN/AMaximum Allowed Back Pressurembar00KIR SYSTEMImbarImbarImbarImbarAIR SYSTEMImbar	100% Load Prime	L/h		N/A
50% Load PrimeL/hN/A100% Load StandbyL/hN/AEXHAUST SYSTEMMaximum Temperature 100% Standby°C530.00Exhaust Gas Flow 100% Standbym³/min50Hz2.71Maximum Allowed Back Pressurembar80.00Maximum Temperature 100% Standby°CN/AExhaust Gas Flow 100% Standby°CN/AMaximum Temperature 100% Standby°CN/AExhaust Gas Flow 100% Standbym³/min60HzN/AMaximum Allowed Back PressurembarN/AMaximum Allowed Back PressurembarN/AAIR SYSTEM	75% Load Prime	L/h	40U 7	N/A
EXHAUST SYSTEM °C 530.00 Maximum Temperature 100% Standby °C 2.71 Maximum Allowed Back Pressure mbar 80.00 Maximum Temperature 100% Standby °C N/A Exhaust Gas Flow 100% Standby m ³ /min 60Hz N/A Maximum Allowed Back Pressure mbar V/A Maximum Allowed Back Pressure mbar V/A AIR SYSTEM Image: Standby Standby	50% Load Prime	L/h		N/A
Maximum Temperature 100% Standby °C 530.00 Exhaust Gas Flow 100% Standby m ^{3/} min 50Hz 2.71 Maximum Allowed Back Pressure mbar 80.00 Maximum Temperature 100% Standby °C N/A Exhaust Gas Flow 100% Standby °C N/A Maximum Temperature 100% Standby °C N/A Maximum Allowed Back Pressure mbar 60Hz N/A Maximum Allowed Back Pressure mbar V/A Maximum Allowed Back Pressure mbar V/A AIR SYSTEM V V	100% Load Standby	L/h		N/A
Exhaust Gas Flow 100% Standby m ^{3/} min 50Hz 2.71 Maximum Allowed Back Pressure mbar 80.00 Maximum Temperature 100% Standby °C N/A Exhaust Gas Flow 100% Standby m ^{3/} min 60Hz N/A Maximum Allowed Back Pressure mbar N/A Maximum Allowed Back Pressure mbar 60Hz N/A Maximum Allowed Back Pressure mbar N/A	EXHAUST SYSTEM			
Maximum Allowed Back Pressure mbar 80.00 Maximum Temperature 100% Standby °C N/A Exhaust Gas Flow 100% Standby m³/min 60Hz N/A Maximum Allowed Back Pressure mbar N/A Air SYSTEM Image: System Standby System Standby	Maximum Temperature 100% Standby	°C		530.00
Maximum Temperature 100% Standby °C N/A Exhaust Gas Flow 100% Standby m³/min 60Hz N/A Maximum Allowed Back Pressure mbar N/A AIR SYSTEM	Exhaust Gas Flow 100% Standby	m ^{3/} min	50Hz	2.71
Exhaust Gas Flow 100% Standby m ^{3/} min 60Hz N/A Maximum Allowed Back Pressure mbar N/A AIR SYSTEM Value Value	Maximum Allowed Back Pressure	mbar		80.00
Maximum Allowed Back Pressure mbar N/A AIR SYSTEM	Maximum Temperature 100% Standby	°C		N/A
AIR SYSTEM	Exhaust Gas Flow 100% Standby	m ^{3/} min	60Hz	N/A
	Maximum Allowed Back Pressure	mbar		N/A
Intake Air Flow 100% Standby Koth 177.00	AIR SYSTEM			
	Intake Air Flow 100% Standby	Kg/h		177.00
Total Cooling Air Flow 100% Standby (@ 53 mm H20 Canopy Depression)m³/s50Hz2	0 /	m ³ /s	50Hz	2
Alternator Fan Airflow m ³ /s 0.20	Alternator Fan Airflow	m³/s		0.20
Intake Air Flow 100% Standby Kg/h N/A	Intake Air Flow 100% Standby	Kg/h		N/A
Total Cooling Air Flow 100% Standby (@ N/A mm H20 Canopy Depression)m³/s60HzN/A	0 /	m ³ /s	60Hz	N/A
Alternator Fan Airflow m ³ /s N/A	Alternator Fan Airflow	m³/s		N/A

ENGINE				
1500 RPM				
Gross Engine Power (PRP)	kW	37.30		
Gross Engine Power (Standby)	kW	41.00		
	1800 R	PM		
Gross Engine Power (PRP)	kW	N/A		
Gross Engine Power (Standby)	kW	N/A		
Manufacturer and Model		JCB by Kohler KDI 2504 TM		
Fuel		Diesel		
Injection		Direct		
Aspiration		Turbo Charged		
Cylinders		4		
Bore and Stroke	mm	88 × 102		
Displacement	L	2.482		
Cooling		Water		
Engine Oil Specification		API CH4-SAE 10W40		
Compression Ratio		.5 :		
Engine Oil Capacity	L	.50		
Coolant Capacity	L	7.70		
Governor		Mechanical		
Air Filter		Single paper element		
Engine Oil Consumption	100% Load	0.1% of fuel consumed		
FUEL SYSTEM				
Diesel Specification		EN590		

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ALTERNATOR ECP32-3S/4 B	
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	Direct drive centrifugal blower fan
Coating	Winding Protection Grey
STARTING SYSTEM	

STARTING STSTEP		
Starter Motor	kW	2.00
Battery Capacity	Ah	110
Auxiliary Voltage	V	12

BATTERY FEATURES

Battery Isolator	Δ
Battery Type (Optional)	Sealed Lead Acid
Battery Size (Ah)	110
Number of Batteries	l l
Battery Charger	Δ
Standard: • Not Available: x Optic	onal: Δ

MECHANICAL FEATURES			
Cooling Pack			•
Air Filter			•
Mechanical Governor			•
Low Oil Pressure Sender			•
Coolant Temperature Sender			Δ
Low Oil Pressure Sensor			Δ
Oil Temperature Sender			•
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			х
Electronic Governor			×
Standard: •	Not Available: x	Optional: Δ	

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ELECTRICAL FEATURES

AVR DSR			•
AVR DER			х
Winding Protection Standard			х
Winding Protection Standard +			х
Winding Protection Grey			•
Winding Protection Total			х
Winding Protection Total +			×
MAUX			•
PMG			х
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			х
Emergency Stop Button			•
Fuel Level Sensor			•
Standard: •	Not Available: x	Optional: Δ	

JCB COMMUNICATION AND CONTROL				
DSE 4520	•			
DSE 7320	×			
DSE 8610	×			
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 Availabl	e: 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 ISO3046 Information based on standard specification equipment unless otherwise stated.



WEIGHT AND DIMENSIONS – OPEN SET

Length	mm	2075		
Width	mm	670		
Height	mm	1270		
Shipping Volume (sea ready)	m ³	1.77		
Weight*	Kg	780		
*Standard build with all fluids except fuel				

WEIGHT AND DIMENSIONS - CANOPY SET					
Length	mm	2250			
Width	mm	840			
Height	mm	1350			
Shipping Volume (sea ready)	m ³	2.55			
Weight*	Kg	1000			
*Standard build with all fluids except fuel					

SOUND PRESSURE (CANOPY ONLY) LpA (7m) 50Hz dB(A) 66

FUEL SYSTEM		
Diesel Specification		EN590
Fuel Tank Capacity - Open	L	89
Fuel Tank Capacity - Canopy	L	81

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	х		
1x63A 3 Phase / 3x32A 1 Phase Socket Box	Δ		
1x63A 3 Phase / 1x32A 1 Phase / 2x16A 1Phase Socket Box	Δ		
1x32A 3 Phase / 2x16A 1 Phase Socket Box	Δ		
1x125A 3 Phase / 1x63A 3 Phase / 3x32A 3 Phase / 3x32A 1Phase Socket x Box			
External Emergency Stop Button •			
Standard: • Not Available: x Optional: 4	1		