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**STARPOWER** www.star-power.co.uk

**DIESEL GENERATOR** 

**FUEL OPTIMISED** 

ELECTRICAL							
			Pri	me	Star	ndby	
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/I27V	N/A	N/A	N/A	N/A	1800
60	3	208/I20V	N/A	N/A	N/A	N/A	1800

POWER FACTOR	
3 Phase	0.8
I 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

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.



FUEL CONSUMPTION			
100% Load Prime	L/h		9.33
75% Load Prime	L/h	50Hz	7.06
50% Load Prime	L/h	SUHZ	4.84
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	6UHZ	N/A
100% Load Standby	L/h		N/A
EXHAUST SYSTEM			
Maximum Temperature 100% Standby	°C		530.00
Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	50Hz	2.71
Maximum Allowed Back Pressure	mbar		80.00
Maximum Temperature 100% Standby	°C		N/A
Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	60Hz	N/A
Maximum Allowed Back Pressure	mbar		N/A
AIR SYSTEM			
Intake Air Flow 100% Standby	Kg/h		177.00
Total Cooling Air Flow 100% Standby (@ 53 mm H <sub>2</sub> 0 Canopy Depression)	m <sup>3</sup> /s	50Hz	2
Alternator Fan Airflow	m³/s		0.20
Intake Air Flow 100% Standby	Kg/h		N/A
Total Cooling Air Flow 100% Standby (@ N/A mm $H_2$ 0 Canopy Depression)	m <sup>3</sup> /s	60Hz	N/A
Alternator Fan Airflow	m³/s		N/A

ENGINE					
I 500 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		11.5 : 1			
Engine Oil Capacity	L	11.50			
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			



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

BATTERY FEAT	TURES			
Battery Isolator				Δ
Battery Type (Opt	tional)			Sealed Lead Acid
Battery Size (Ah)				110
Number of Batter	ies			1
Battery Charger				Δ
	Standard: •	Not Available: x	Optional: 🛭	1

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	X
Electronic Governor	X
Standard: ● Not Available: x Optional: △	Δ



ELECTRICAL FEATURES	
AVR DSR	•
AVR DER	×
Winding Protection Standard	×
Winding Protection Standard +	X
Winding Protection Grey	•
Winding Protection Total	X
Winding Protection Total +	×
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	×
Emergency Stop Button	•
Fuel Level Sensor	•
Standard: • Not Availa	ble: 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	•
EMC Certification  Hot Guards	•
	•
Hot Guards	•
Hot Guards Belt Guards	•
Hot Guards Belt Guards Earth Leakage Relay	•
Hot Guards Belt Guards Earth Leakage Relay Sound Power Decal	•

#### **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.



WEIGHT AND DIMENSIONS – OPEN SET				
Length	mm	2075		
Width	mm	670		
Height	mm	1270		
Shipping Volume (sea ready)	m <sup>3</sup>	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 <sup>3</sup>	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
Ix32A 3 Phase / Ix16A   Phase Socket Box	X
Ix63A 3 Phase / 3x32A   Phase Socket Box	Δ
Ix63A 3 Phase / Ix32A   Phase / 2x16A   Phase Socket Box	Δ
1x32A 3 Phase / 2x16A   Phase Socket Box	Δ
IxI25A 3 Phase / Ix63A 3 Phase / 3x32A 3 Phase / 3x32A I Phase Socket Box	X
External Emergency Stop Button	•
Standard: • Not Available: x Optional: 4	Δ