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**DIESEL GENERATOR** 

**FUEL OPTIMISED** 

#### **ELECTRICAL**

			Pr	ime	Star	ndby	
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Rated Speed (RPM)
50	3	400/230V	105.0	84.0	115.5	92.4	1500
60	3	380/220V	105.0	84.0	115.5	92.4	1800
60	3	220/127V	107.9	86.3	118.7	95.0	1800
60	3	208/I20V	107.9	86.3	118.7	95.0	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 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.



FUEL CONSUMPTION			
100% Load Prime	L/h		24.1
75% Load Prime	L/h	50Hz	18.60
50% Load Prime	L/h	SUHZ	13.00
100% Load Standby	L/h		26.30
100% Load Prime	L/h		25.55
75% Load Prime	L/h	60Hz	22.51
50% Load Prime	L/h	60HZ	14.23
100% Load Standby	L/h		30.95
EXHAUST SYSTEM			
Maximum Temperature 100% Standby	°C		529.00
Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	50Hz	20.00
Maximum Allowed Back Pressure	mbar		100.00
Maximum Temperature 100% Standby	°C		529
Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	60Hz	23.00
Maximum Allowed Back Pressure	mbar		100.00
AIR SYSTEM			
Intake Air Flow 100% Standby	Kg/h		506.00
Total Cooling Air Flow 100% Standby (@ 16 mm H <sub>2</sub> 0 Canopy Depression)	m³/s	50Hz	3.9
Alternator Fan Airflow	m³/s		0.32
Intake Air Flow 100% Standby	Kg/h		506.00
Total Cooling Air Flow 100% Standby (@ 16 mm H <sub>2</sub> 0 Canopy Depression)	m³/s	60Hz	3.96
Alternator Fan Airflow	m³/s		0.38

ENGINE							
I 500 RPM							
Gross Engine Power (PRP)	kW	100.00					
Gross Engine Power (Standby)	kW	110.00					
	I 800 RPM						
Gross Engine Power (PRP)	kW	100.00					
Gross Engine Power (Standby)	kW	110.00					
Manufacturer and Model		JCB 444 G-TCA- 100					
Fuel		Diesel					
Injection		Direct					
Aspiration		Turbo Charged					
Cylinders		4					
Bore and Stroke	mm	103 x 132					
Displacement	L	4.399					
Cooling		Water					
Engine Oil Specification		API CH4-SAE 10W40					
Compression Ratio		17.5 : 1					
Engine Oil Capacity	L	14.00					
Coolant Capacity	L	18.00					
Governor		Mechanical					
Air Filter		Two stage filtration					
Engine Oil Consumption	100% Load	0.1% of fuel consumed					
FUEL SYSTEM							
Diesel Specification		EN590					

Number of Batteries Battery Charger

Standard: •



ALTERNATOR ECP34-2S/4				
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			4.20
Battery Capacity	Ah		120	
Auxiliary Voltage V			12	
BATTERY FEATURES				
Battery Isolator				Δ
Battery Type (Optional)				Sealed Lead Acid
Battery Size (Ah)				110

Not Available: x

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	Δ
Electronic Governor	X
Standard: • Not Available: x Optional: A	Δ

Δ

Optional:  $\Delta$ 



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	4

JCB COMMUNICATION AND CONTROL				
DSE 4520	•			
DSE 7320	Δ			
DSE 8610	X			
Live Link For Power	•			
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: $\Delta$			

### **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	2300			
Width	mm	1030			
Height	mm	1750			
Shipping Volume (sea ready)	m <sup>3</sup>	4.15			
Weight*	Kg	1500			
*Standard build with all fluids except fuel					

WEIGHT AND DIMENSIONS – CANOPY SET					
Length	mm	2850			
Width	mm	1140			
Height	mm	1850			
Shipping Volume (sea ready)	m <sup>3</sup>	5.95			
Weight*	Kg	1830			
*Standard build with all fluids except fuel					

SOUND PRESSURE (CANOPY ONLY)			
LpA (7m)	50Hz	dB(A)	70

FUEL SYSTEM		
Diesel Specification		EN590
Fuel Tank Capacity - Open	L	290
Fuel Tank Capacity - Canopy	L	270

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   Phase Socket Box	X
Ix63A 3 Phase / 3x32A   Phase Socket Box	Δ
1x63A 3 Phase / 1x32A   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: △	Δ