





DIESEL GENERATOR FUEL OPTIMISED

ELECTRICAL									
			Pri	me	Star	ndby			
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
50	3	400/230V	105.0	84.0	115.5	92.4	160	160	1500
60	3	380/220V	105.0	84.0	115.5	92.4	160	160	1800
60	3	220/I27V	107.9	86.3	118.7	95.0	320	320	1800
60	3	208/120V	107.9	86.3	118.7	95.0	320	320	1800

POWER FACTOR		MAXIMUM LOAD IMPAC	T*
3 Phase	0.8	kVA	63
I Phase	I. I.	kW	50.40
		#11/the 2004 vialtage and 1004 frequency deviation	DEDUS ADDIV

With 20% voltage and 10% frequency deviation @ 50Hz, 400V

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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CANOPY/SKID

Lockable Maintenance Access Doors		•
Control Panel Viewing Window	•	
Fork Pockets		Δ
Single Lift Point		Δ
Bunding		Δ
Open Frame		Δ
High Density Fire Retardant Foam		•
Yellow Paint		•
White Paint		Δ
Four Point Lift (non CE)		Δ
Standard: • Not A	wailable: x Opt	ional: Δ

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
Number of Batteries		1
Auxiliary Voltage	V	12

ENGINE					
I 500 RPM					
Gross Engine Power (PRP)	kW	100.00			
Gross Engine Power (Standby)	kW	110.00			
	1800 R	PM			
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			
Standard Fuel Tank Capacity	L	270			

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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 ^{3/} min	50Hz	20.00
Maximum Allowed Back Pressure	mbar		100.00
Maximum Temperature 100% Standby	°C		529
Exhaust Gas Flow 100% Standby	m ^{3/} min	60Hz	23.00
Maximum Allowed Back Pressure	mbar		100.00
Exhaust Flange Size	mm	64.5	I.
AIR SYSTEM			
Intake Air Flow 100% Standby	Kg/h		506.00
Total Cooling Air Flow 100% Standby (@ 16 mm H ₂ 0 Canopy Depression)	m ³ /s	50Hz	3.9
Alternator Fan Airflow	m ³ /s		0.32
Intake Air Flow 100% Standby	Kg/h		506.00
Total Cooling Air Flow 100% Standby (@ 16 mm H_20 Canopy Depression)	m ³ /s	60Hz	3.96
Alternator Fan Airflow	m ³ /s		0.38

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
Manual Oil Drain Pump (Canopy)	Δ
Water Jacket Heater	Δ
Pre-Filter with Separator	•
Mechanical Fuel Level Indicator (Non CE Only)	Δ
Internal Fuel Fill (Belly Tank)	•
3 Way Fuel Valve with Quick Connector	Δ
Residential Silencer	•
Industrial Silencer	Х
Door Stops	Δ
Canopy Bump Stops	Δ
Bunded Base	Δ
Gravity Oil Drain Pipe	Δ
Larger Fuel Filler Neck	Δ
Electronic Governor	Δ (soon)
Standard: • Not Available: x O	ptional: Δ

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

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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 +			х
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			Δ (soon)
Emergency Stop Button			•
External Emergency Stop Button		•	
Fuel Level Sensor		•	
1x63A 3 Phase / 3x32A 1 Phase Socket		Δ	
1x63A 3 Phase / 3x32A 1 Phase / 2x16A		Δ	
1x32A 3 Phase / 2x16A 1 Phase Socket	Box		Δ
Standard: •	Not Available: x	Optional: Δ	

BATTERY FEATURES

Battery Isolator				Δ
Battery Type				Sealed Lead Acid
Battery Size (Ah)				110
Number of Batterie	2S			I
Battery Charger				Δ
	Standard: •	Not Available: x	Optional: Δ	

JCB COMMUNICATION AND CONTROL		
DSE 4510	Х	
DSE 4520	•	
DSE 7320	Δ	
DSE 8610	Δ (soon)	
Live Link For Power	•	
OPTIONAL CE PACK		
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	Dptional: Δ	

WEIGHT AND DIMENSIONS		
Length	mm	2850
Width	mm	1140
Height	mm	1850
Shipping Volume (sea ready)	m ³	5.95
Weight*	Kg	1830.00
*Standard build with all fluids except fuel		

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.