





DIESEL GENERATOR	FUEL OPTIMISED
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ELECTRICAL									
			Pr	ime	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	180.0	144.0	198.0	158.4	320	320	1500

POWER FACTOR	
3 Phase	0.8
1 Phase	I

MAXIMUM LOAD IMPACT*			
kVA	108.00		
kW	86.40		

^{*}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: This rating is for the supply of continuous electrical power, at variable load, in the event of a utility power failure. No overload is permitted.

Stage Illa models are only emissions compliant at 50Hz Prime Power in accordance with 97-68EC.

JCB GENERATOR TECHNICAL SPECIFICATIONS. Tel: +44 (0) 1889 5903 12. www.jcbgenerators.com. JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories.



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
Standard: • Not Available: x Optional: 4	Δ

ALTERNATOR ECO38 ISN/4				
Poles	4			
Winding Connections	Star			
Insulation	Class H			
Enclosure	IP23			
Exciter System	Self-regulating brushless			
Voltage Regulator	AVR			
Steady State Voltage Regulation	+/- 1.5%			
Bearing	Single bearing sealed			
Coupling	Flexible disc			
Cooling	Direct drive centrifugal blower fan			
Coating	Winding Protection Grey			
Bearing Coupling Cooling	Single bearing sealed Flexible disc Direct drive centrifugal blower fan			

STARTING SYSTEM		
Starter Motor	kW	4.00
Battery Capacity	Ah	110
Number of Batteries		2
Auxiliary Voltage	V	24

ENGINE						
I 500 RPM						
Output Rating (PRP)	kW	156.00				
Output Rating (Standby)	kW	172.04				
Manufacturer and Model		JCB 6 CYLINDER				
Fuel		Diesel				
Injection		Direct				
Aspiration		Turbo Charged				
Cylinders		6				
Bore and Stroke	mm	106 x 135				
Displacement	L	7.15				
Cooling		Water				
Engine Oil Specification		API CF-4				
Compression Ratio		16.9 : 1				
Engine Oil Capacity	L	28.00				
Coolant Capacity	L	26.00				
Governor		Electronic				
Air Filter		Two stage with restriction indicator				
Engine Oil Consumption	100% Load	0.1% of fuel consumed				
FUEL SYSTEM						
Diesel Specification		EN590				
Standard Fuel Tank Capacity	L	360				



100% Load Prime		L/h			38.00
		L/h			
75% Load Prime			50Hz	50Hz	29.60 20.80
50% Load Prime		L/h			
100% Load Standby		L/h			41.00
EXHAUST SYSTEM					
Maximum Temperature 100% S	Standby	°C			465.00
Exhaust Gas Flow 100% Standby	у	m ^{3/} min	50H:	50Hz	26.50
Maximum Allowed Back Pressure	е	mbar			
Exhaust Flange Size		mm		76.5	
AIR SYSTEM					
Intake Air Flow 100% Standby		m³/h			632.00
Total Cooling Air Flow 100% Standby		m^3/s	50H:	50Hz	
10tal C001111g / 11 1 10W 100 /0 3ta		m^3/s			
Alternator Fan Airflow		m /s			
•		m /s			
•	PY ONLY)	m /s			

MECHANICAL FEATURES			
Cooling Pack			•
Air Filter			•
Mechanical Governor			•
Low Oil Pressure Switch			•
Coolant Temperature Sender			•
Oil Temperature Sender			•
Radiator Guards			•
Hot Component Guards			Δ
Manual Oil Drain Pump (Canopy)			Δ
Water Jacket Heater			Δ
Pre-Filter with Separator			•
Fuel Level Sender			•
Internal Fuel Fill (Belly Tank)			•
3 Way Fuel Valve			Δ
Residential Silencer			•
Industrial Silencer			×
Standard: ●	Not Available: x	Optional: Δ	



ELECTRICAL FEATURES	
AVR DSR	•
AVR DER	X
Winding Protection Standard	X
Winding Protection Standard +	×
Winding Protection Grey	•
Winding Protection Total	Δ
Winding Protection Total +	Δ
MAUX	•
PMG	Δ
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker	•
4 Pole Moulded Case Circuit Breaker	Δ
Earth Leakage Protection (Shunt Trip)	Δ
Preparation for Earth Spike	•
Optional Voltages	Δ
Remote Screen	Δ
Emergency Stop Button	•
External Emergency Stop Button	•
Standard: • Not Available: x Optional: 2	Δ

BATTERY FEATURES		
Battery Isolator		Δ
Battery Type		Lead Acid
Battery Size (Ah)		110
Number of Batteries		2
Battery Charger		Δ
Standard: ●	Not Available: x	Optional: Δ

ND CONTROL	
	×
	•
Not Available: x	Optional: Δ
s	
mm	3800
mm	1140
mm	2000
m ³	8.67
Kg	2700.00
	•
	•
	•
	•
	•
ons	•
f Conformity	•
	mm mm mm m³ Kg

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/I 08/CE Electromagnetic compatibility

JCB COMMUNICATION AND CONTROL

- 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.