



Image is for illustration purpose only

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DIESEL	DIESEL GENERATOR FOEL OPTIMISED		FOEL OF TIMISED				
ELECTRICAL							
			Pri	me	Star	ndby	
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Rated Speed (RPM)
50	3	400/230V	180.0	144.0	198.0	158.0	1500
60	3	380/220V	180.0	144.0	198.0	158.4	1800
60	3	220/I27V	182.6	146.1	205.9	164.7	1800
60	3	208/I20V	182.6	146.1	205.9	164.7	1800

POWER FACTOR	
3 Phase	0.8
l Phase	I

### 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 39.7   75% Load Prime L/h 31.10   50% Load Prime L/h 31.0   100% Load Standby L/h 43.60   100% Load Standby L/h 40.20   100% Load Prime L/h 31.30   100% Load Prime L/h 31.30   50% Load Prime L/h 31.30   50% Load Prime L/h 43.00   50% Load Prime L/h 43.00   50% Load Prime L/h 43.00   50% Load Prime L/h 495.00   50% Load Prime Maximum Temperature 100% Standby °C   Maximum Temperature 100% Standby m <sup>3</sup> /min 50Hz 26.50   Maximum Allowed Back Pressure mbar 50.00 440   Exhaust Gas Flow 100% Standby °C 440 30.60   Maximum Allowed Back Pressure mbar 60Hz 30.60				
75% Load Prime L/h 50Hz 31.10   50% Load Prime L/h 21.20 43.60   100% Load Standby L/h 43.60   100% Load Prime L/h 40.20   75% Load Prime L/h 31.30   75% Load Prime L/h 40.20   75% Load Prime L/h 31.30   50% Load Prime L/h 43.60   100% Load Standby L/h 40.20   100% Load Standby L/h 41.00   50% Load Prime L/h 43.00   50% Load Standby L/h 43.00   100% Load Standby C 43.00   Standby C 43.00   Maximum Temperature 100% Standby °C 495.00   Kaximum Allowed Back Pressure mbar 50Hz 26.50   Maximum Temperature 100% Standby °C 440 50.00   Maximum Temperature 100% Standby °C 440 30.60	FUEL CONSUMPTION			
50% Load Prime L/h 50Hz 21.20   100% Load Standby L/h 43.60   100% Load Prime L/h 40.20   75% Load Prime L/h 31.30   50% Load Prime L/h 40.20   75% Load Prime L/h 40.20   75% Load Prime L/h 31.30   50% Load Standby L/h 43.00   100% Load Standby L/h 43.00   100% Load Standby 0°C 440.20   Exhaust Gas Flow 100% Standby m <sup>3</sup> /min 50Hz 26.50   Maximum Temperature 100% Standby °C 440 50.00   Maximum Temperature 100% Standby °C 440 50.00   Maximum Temperature 100% Standby °C 440 50.00	100% Load Prime	L/h		39.7
50% Load Prime L/h 21.20   100% Load Standby L/h 43.60   100% Load Prime L/h 40.20   75% Load Prime L/h 31.30   50% Load Prime L/h 21.20   100% Load Prime L/h 40.20   50% Load Prime L/h 21.20   100% Load Standby L/h 43.00   100% Load Standby L/h 43.00   EXHAUST SYSTEM 443.00 443.00   Maximum Temperature 100% Standby °C 495.00   Maximum Allowed Back Pressure mbar 50Hz 26.50   Maximum Temperature 100% Standby °C 440   Exhaust Gas Flow 100% Standby °C 440   Exhaust Gas Flow 100% Standby °C 440	75% Load Prime	L/h	504-	31.10
Interface bankery Interface   100% Load Prime L/h 40.20   75% Load Prime L/h 31.30   50% Load Prime L/h 21.20   100% Load Standby L/h 43.00   EXHAUST SYSTEM   Maximum Temperature 100% Standby °C 495.00   Exhaust Gas Flow 100% Standby mbar 50Hz 26.50   Maximum Allowed Back Pressure mbar 50Hz 440   Exhaust Gas Flow 100% Standby °C 440   Exhaust Gas Flow 100% Standby °C 440	50% Load Prime	L/h	JUHZ	21.20
75% Load Prime L/h 60Hz 31.30 21.20 31.30 31.30 21.20 31.30 21.20 31.30	100% Load Standby	L/h		43.60
50% Load Prime L/h 60Hz 21.20   100% Load Standby L/h 43.00   EXHAUST SYSTEM 495.00   Maximum Temperature 100% Standby °C 495.00   Exhaust Gas Flow 100% Standby m³/min 50Hz 26.50   Maximum Allowed Back Pressure mbar 50Hz 440   Exhaust Gas Flow 100% Standby °C 440   Exhaust Gas Flow 100% Standby °C 440	100% Load Prime	L/h		40.20
50% Load PrimeL/h21.20100% Load StandbyL/h43.00EXHAUST SYSTEMMaximum Temperature 100% Standby°C495.00Exhaust Gas Flow 100% Standbym³/min50Hz26.50Maximum Allowed Back Pressurembar50.00Maximum Temperature 100% Standby°C440Exhaust Gas Flow 100% Standbym³/min60Hz30.60	75% Load Prime	L/h	60H <del>7</del>	31.30
EXHAUST SYSTEM°C495.00Maximum Temperature 100% Standby°C26.50Exhaust Gas Flow 100% Standbym³/min50Hz26.50Maximum Allowed Back Pressurembar50.00Maximum Temperature 100% Standby°C440Exhaust Gas Flow 100% Standbym³/min60Hz30.60	50% Load Prime	L/h	00112	21.20
Maximum Temperature 100% Standby°C495.00Exhaust Gas Flow 100% Standbym³/min50Hz26.50Maximum Allowed Back Pressurembar50.00Maximum Temperature 100% Standby°C440Exhaust Gas Flow 100% Standbym³/min60Hz30.60	100% Load Standby	L/h		43.00
Exhaust Gas Flow 100% Standbym³/min50Hz26.50Maximum Allowed Back Pressurembar50.00Maximum Temperature 100% Standby°C440Exhaust Gas Flow 100% Standbym³/min60Hz30.60	EXHAUST SYSTEM			
Maximum Allowed Back Pressurembar50.00Maximum Temperature 100% Standby°C440Exhaust Gas Flow 100% Standbym³/min60Hz30.60	Maximum Temperature 100% Standby	°C		495.00
Maximum Temperature 100% Standby°C440Exhaust Gas Flow 100% Standbym³/min60Hz30.60	Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	50Hz	26.50
Exhaust Gas Flow 100% Standbym³/min60Hz30.60	Maximum Allowed Back Pressure	mbar		50.00
	Maximum Temperature 100% Standby	°C		440
Maximum Allowed Back Pressure mbar 60.00	Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	60Hz	30.60
	Maximum Allowed Back Pressure	mbar		60.00
AIR SYSTEM	AIR SYSTEM			
Intake Air Flow 100% Standby Kg/h 865.00	Intake Air Flow 100% Standby	Kg/h		865.00
Total Cooling Air Flow 100% Standby (@ 16 mm H20 Canopy Depression)m³/s50Hz7.2	0	m³/s	50Hz	7.2
Alternator Fan Airflow m³/s 0.53		m³/s		0.53
Intake Air Flow 100% Standby Kg/h 983.00	Intake Air Flow 100% Standby	Kg/h		983.00
Total Cooling Air Flow 100% Standby (@ 16 mm H20 Canopy Depression)m³/s60Hz7.2		m³/s	60Hz	7.2
Alternator Fan Airflow m <sup>3</sup> /s 0.65		m³/s		0.65

ENGINE						
I 500 RPM						
Gross Engine Power (PRP)	kW	170.00				
Gross Engine Power (Standby)	kW	187.00				
	1800 R	PM				
Gross Engine Power (PRP)	kW	70.00				
Gross Engine Power (Standby)	kW	187.00				
Manufacturer and Model		JCB 672 TA2G- 187				
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 CH4-SAE 10W40				
Compression Ratio		16.9 : 1				
Engine Oil Capacity	L	28.00				
Coolant Capacity	L	26.00				
Governor		Electronic				
Air Filter		Two stage filtration				
Engine Oil Consumption	100% Load	0.1% of fuel consumed				
FUEL SYSTEM	FUEL SYSTEM					
Diesel Specification		EN590				

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ALTERNATOR ECO38-154 A	
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
STARTING SYSTEM	

STARTING STSTEM		
Starter Motor	kW	4.00
Battery Capacity	Ah	110
Auxiliary Voltage	V	24

### **BATTERY FEATURES**

Battery Isolator	Δ
Battery Type (Optional)	Sealed Lead Acid
Battery Size (Ah)	110
Number of Batteries	2
Battery Charger	Δ
Standard: • Not Available: x Optional: 4	7

MECHANICAL FEATURES	
Cooling Pack	•
Air Filter	•
Mechanical Governor	Х
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	•
Standard: • Not Available: x Opt	ional: $\Delta$

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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
Emergency Stop Button			•
Fuel Level Sensor			•
Standard: •	Not Available: x	Optional: $\Delta$	

JCB COMMUNICATION AND CONTROL					
DSE 4520	•				
DSE 7320	Δ				
DSE 8610	Δ				
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	Dptional: $\Delta$				

#### **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	2840
Width	mm	1030
Height	mm	1800
Shipping Volume (sea ready)	m <sup>3</sup>	5.27
Weight*	Kg	2090
*Standard build with all fluids except fuel		

### WEIGHT AND DIMENSIONS - CANOPY SET

WEIGHT AND DITERSIONS	CAROTISET	
Length	mm	3800
Width	mm	1140
Height	mm	2075
Shipping Volume (sea ready)	m <sup>3</sup>	9
Weight*	Kg	2700
*Standard build with all fluids except fuel		

# SOUND PRESSURE (CANOPY ONLY)

LpA (/m)	50Hz	dB(A)	68

FUEL SYSTEM			
Diesel Specification		EN590	
Fuel Tank Capacity - Open	L	350	
Fuel Tank Capacity - Canopy	L	360	

CANOPY FEATURES	
Lockable Maintenance Access Doors	•
Control Panel Viewing Window	•
Fork Pockets	Δ
Single Lift Point	$\Delta$
Bunding	Δ
High Density Fire Retardant Foam	•
Yellow Paint	•
White Paint	$\Delta$
Four Point Lift (non CE)	$\Delta$
Residential Silencer	•
Door Stops	$\Delta$
Canopy Bump Stops	$\Delta$
Manual Oil Drain Pump	$\Delta$
1x32A 3 Phase / 1x16A 1 Phase Socket Box	Х
1x63A 3 Phase / 3x32A 1 Phase Socket Box	Х
1x63A 3 Phase / 1x32A 1 Phase / 2x16A 1Phase Socket Box	X
1x32A 3 Phase / 2x16A 1 Phase Socket Box	Х
1x125A 3 Phase / 1x63A 3 Phase / 3x32A 3 Phase / 3x32A 1Phase Socket Box	Δ
External Emergency Stop Button	•
Standard: • Not Available: x Option	al: $\Delta$