



DIESEL GENERATOR

FUEL OPTIMISED

WEIGHT AND DIMENSIONS

Length	mm	6058
Width	mm	2438
Height	mm	2896
Shipping Volume (sea ready)	m ³	42.8
Weight*	Kg	10050

*Standard build with all fluids except fuel

ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	Prime		Standby		MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
			kVA	kW	kVA	kW			
50	3	400/230	680	544	735	588	1000	1000	1500

POWER FACTOR

3 Phase	0.8
1 Phase	1

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528

Prime: This rating is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 h of operation shall not exceed 70 % of the PRP.

Standby: This rating is the maximum power available during a variable electrical power sequence under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

ALTERNATOR - ECO40-2L4B

Poles	4
Winding Connections	Series 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	Grey winding protection

STARTING SYSTEM

Starter Motor	kW	7.5
Auxiliary Voltage	V	24

FUEL CONSUMPTION

100% Load Prime	L/h		136.4
75% Load Prime	L/h		104.3
50% Load Prime	L/h	50Hz	74.5
100% Load Standby	L/h		151.6

FUEL SYSTEM

Diesel Specification		BS2869 Class A or ASTM D975 No.2
Fuel Tank Capacity	L	1000

SOUND PRESSURE (CANOPY ONLY)

LpA (7m)	50Hz	dB(A)	81
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ENGINE

1500 RPM		
Output Rating (PRP)	kW	575
Output Rating (Standby)	kW	635
Manufacturer and Model	Mitsubishi S6R2 PTA	
Fuel	Diesel	
Injection	Direct	
Aspiration	Turbo Charged with Aftercooler	
Cylinders	Inline 6	
Bore and Stroke	mm	170 X 220
Displacement	L	29.96
Cooling	Water	
Engine Oil Specification	API CD CF - SAE 30 - SAE 40	
Compression Ratio	14.1:1	
Engine Oil Capacity	L	94
Coolant Capacity	L	118
Governor	Electronic	
Air Filter	Heavy Duty	
Engine Oil Consumption	100% Load	0.8

AIR SYSTEM

Intake Air Flow 100% Standby	m ³ /h		3120
Total Cooling Air Flow 100% Standby	m ³ /s	50Hz	12.0
Alternator Fan Airflow	m ³ /s		0.90

EXHAUST SYSTEM

Maximum Temperature 100% Standby	°C		510
Exhaust Gas Flow 100% Standby	m ³ /min	50Hz	137
Maximum Allowed Back Pressure	mbar		59

ELECTRICAL FEATURES

AVR (Electronic)	●
Winding Protection (Grey coating)	●
Anti-Condensation Heater	△
Circuit Breaker (with integrated busbar)	●
Earth Leakage Protection (Shunt Trip)	△
Emergency Stop Button	●
External Emergency Stop Button	●
Static Battery Charger	●
Standard: ●	Not Available: x
	Optional: Δ

JCB COMMUNICATION AND CONTROL

DSE 7310	●
DSE 7320	△
DSE 8610	△
DSE 8620	△
ComAp IG-NTC SPtM - IV5	△
ComAp IG-NTC MINT - IV5	△
JCB LiveLink	x
Standard: ●	Not Available: x
	Optional: Δ

CANOPY/SKID

Lockable Maintenance Access Doors	●
Control Panel Viewing Window	●
Bunding	△
Open Frame	x
Bund Level Indicator	△
50mm Rock Wool Sound Insulation	●
Yellow Paint	●
White Paint	△
Standard: ●	Not Available: x
	Optional: Δ

MECHANICAL FEATURES

Electronic Governor	●
High Coolant Temperature Sender	●
Low Oil Pressure Sender	●
Oil Temperature Sender	△
Water Level Sensor	●
Radiator Guards	●
Hot Component Guards	●
Manual Oil Drain Pump	●
Water Jacket Heater	●
Residential Silencer	x
Industrial Silencer	●
Exhaust Gas Bellows	●
Standard: ●	Not Available: x
	Optional: Δ

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.