





DIESEL GENERATOR

Fuel Optimised

ELECTRICAL

			Pri	me	Star	ıdby			
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Power Factor	Rated Speed (RPM)	Alternator
50	3	400/230V	300	240	330	264	0.8	1500	ECO38 2L4A
60	3	480/277V	344	275	375	300	0.8	1800	ECO38 2L4A
60	3	380/220V	344	275	375	300	8.0	1800	ECO38 2L4A-D
60	3	208/I20V	344	275	375	300	8.0	1800	ECO38 3L4A
60	3	220/I27V	344	275	375	300	0.8	1800	ECO38 3L4A

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS

PRIME: Available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

STANDBY: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. This rating should be applied where reliable utility power is available. A Standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating



ENGINE				
I 500 RPM				
Output Rating (PRP)	kW	258		
Output Rating (Standby)	kW	300		
	1800 R	PM		
Output Rating (PRP)	kW	296		
Output Rating (Standby)	kW	344		
Manufacturer and Model		Cummins QSL9-G5		
Fuel		Diesel		
Injection		Direct		
Aspiration		Turbo Charged and Charge Air Cooled		
Cylinders		6 - Inline		
Bore and Stroke	mm	114 x 145		
Displacement	L	8.80		
Cooling		Water		
Engine Oil Specification		ACEA E3, E4, E5 or E7		
Compression Ratio		16.8 : 1		
Engine Oil Capacity	L	26.50		
Coolant Capacity	L	36.00		
Governor		Electronic		
Air Filter		Dry		
Engine Oil Consumption	100% Load	0.2 g/kWh		
FUEL SYSTEM				
Diesel Specification		EN590		

FUEL CONSUMPTION			
100% Load Prime	L/h		63.3
75% Load Prime	L/h	50Hz	46.5
50% Load Prime	L/h	30112	31.9
100% Load Standby	L/h		70.0
100% Load Prime	L/h		74.9
75% Load Prime	L/h	60Hz	54.9
50% Load Prime	L/h	0UMZ	38.8
100% Load Standby	L/h		81.9
EXHAUST SYSTEM			
Maximum Temperature 100% Standby	оС		560
Exhaust Gas Flow 100% Standby	L/s	50Hz	880
Maximum Allowed Back Pressure	mbar		101
Maximum Temperature 100% Standby	°C		580
Exhaust Gas Flow 100% Standby	L/s	60Hz	1080
Maximum Allowed Back Pressure	mbar		101
AIR SYSTEM			
Intake Air Flow 100% Standby	m³/h		1224
Total Cooling Air Flow 100% Standby	m³/s	50Hz	6.1
Alternator Fan Airflow	m³/s		0.53
Intake Air Flow 100% Standby	m³/h		1476
Total Cooling Air Flow 100% Standby	m³/s	60Hz	7.8
Alternator Fan Airflow	m³/s		0.65

STARTING SYSTEM



ALTERNATOR				
Poles	4			
Winding Connections	Series Star / Parallel Star*			
Insulation	Class H			
Enclosure	IP23			
Exciter System	MAUX Excitation			
Voltage Regulator	AVR (electronic)			
Steady State Voltage Regulation	+/- 1.0%			
Bearing	Single bearing			
Coupling	Flexible disc			
Cooling	Direct drive centrifugal blower fan			
Coating	Grey Winding Protection			
* depending on voltage selection				

STARTING STS	I EM			
Auxiliary Voltage		V	24	
Number of Batterie	S		2	
BATTERY FEAT	URES			
Battery Isolator			Δ	
Battery Type			Lead Acid (Δ)	
Battery Charger			Δ	
	Standard: ●	Not Available: x	Optional: Δ	

ELECTRICAL FEATURES	
AVR DSR	•
Winding Protection – Grey Enhanced	•
MAUX	•
PMG	Δ
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker (with integrated busbar)	•
4 Pole Moulded Case Circuit Breaker (with integrated busbar)	Δ
Earth Leakage Protection (Shunt Trip)	Δ
Synchronisation	Δ
Preparation for Earth Spike	•
Emergency Stop Button	•
Standard: • Not Available: x Optional: Δ	

CANOPY FEATURES			
Lockable Maintenance Access Doors			•
Control Panel Viewing Window			•
Yellow Paint			•
Alternate Colour			Δ
Socket Box			×
External Emergency Stop Button			•
Door Stays			•
Standard: ●	Not Available: x	Optional: Δ	



MECHANICAL FEATURES			
Cooling Pack			•
Air Filter			•
Mechanical Governor			Χ
Electronic Governor			•
Radiator Guards			•
Hot Component Guards			•
Water Jacket Heater			Δ
Fuel/Water Pre Filter			•
Manual Oil Drain Pump			Δ
3 Way Fuel Valve and Coupling Nest			Δ
Fork Pockets			Δ
Single Lift Point			Δ
Bunding			•
Standard: ●	Not Available: x	Optional: Δ	

SOUND PRESSURE

LpA (7m)	50Hz	dB(A)	68.8
LpA (7m)	60Hz	dB(A)	71.1

FUEL TANK

	Material	Capacity (L)
Canopy Set	Steel	470

MOBILE EMISSIONS REGULATIONS

Depending on the territory, specific emissions legislation applies to generators used in mobile applications. Any generator not permanently installed, for the life of the product, must be considered as mobile equipment and may be subject to emissions legislation requirements. Please consult your local dealer for clarification.

JCB COMMUNICATION AND CO	ONTROL		
DSE 4520			•
DSE 7310			Δ
DSE 8610 Synchronising Controller & Motorised Circuit Breaker			Δ
Low Oil Pressure Shutdown	•		
High Engine Temperature Shutdown	•		
Low Coolant Level Alarm	•		
Low Fuel Level Alarm	•		
JCB LiveLink			•
Standard: ●	Not Available: x	Optional: Δ	

WEIGHT AND DIMENSIONS		
Length	mm	3900
Width	mm	1400
Height	mm	2340
Shipping Volume (sea ready)	m^3	12.78
Weight*	Kg	4350

^{*}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, EN13857, EN60204
- 2006/42/CE Machinery safety
- 2014/35/EU Low voltage
- 2014/30/EU 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.