





DIESEL GENERATOR

ELECTRICAL									
		•	Pri	me	Star	ndby			
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Power Factor	Rated Speed (RPM)	Alternator
50	3	400/230V	250	200	275	220	0.8	1500	ECO38-1L/4A
60	3	480/277V	260	208	287	230	0.8	1800	ECO38-1L/4A
60	3	220/I27V	260	208	287	230	0.8	1800	ECO38-1L/4A
60	3	208/I20V	260	208	287	230	0.8	1800	ECO38-1L/4A

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS

PRIME POWER: This rating is for the supply of continuous electrical power at variable load with 70% load factor in lieu of commercially purchased 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 POWER: 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. The average power output during a 24h period shall not exceed 80%. Operating hours are limited to 500h per annum with continuous operation to not exceed 300 hours



ENGINE				
	1500 RPM			
Output Rating (PRP)	kW	219		
Output Rating (Standby)	kW	241	241	
	1800 RPM			
Output Rating (PRP)	kW	223		
Output Rating (Standby)	kW	247		
Manufacturer and Model		Volvo TAD	734GE	
Fuel		Diese	el	
Injection		Direc	:t	
Aspiration		Turbo Ch	arged	
Cylinders		6		
Bore and Stroke	mm	108 x 1	30	
Displacement	L	7.15		
Cooling		Wate	er	
Engine Oil Specification		API CH4 I		
Compression Ratio		17.0 :	1	
Engine Oil Capacity	L	29.0		
Coolant Capacity	L	32.0		
Governor		Electro	nic	
Air Filter		2 Stag	1	
Lube Oil Consumption @ 100%	L/hr	0.03		
FUEL CONSUMPTION				
100% Load Prime	L/h		53.6	
75% Load Prime	L/h	50Hz	43.0	
50% Load Prime	L/h	3UH2	30.6	
100% Load Standby	L/h	h 59.1		
100% Load Prime	L/h		57.2	
75% Load Prime	L/h	60Hz	46.3	
50% Load Prime	pad Prime L/h 60HZ 3		33.3	
100% Load Standby L/h 62.8			62.8	

AIR SYSTEM					
Combustion Air Flow 100% Standby	m³/h		978		
Radiator Cooling Air Flow 100% Standby	m³/s		3.42		
Alternator Fan Airflow	m³/s	50Hz	0.53		
Radiator Duct Allowance	mmwg		30		
Max Air On Temperature			50		
Combustion Air Flow 100% Standby	m³/h		1134		
Radiator Cooling Air Flow 100% Standby	m³/s		TBA		
Alternator Fan Airflow	m³/s	60Hz	0.65		
Radiator Duct Allowance	tor Duct Allowance mmwg		TBA		
Max Air On Temperature	°C		TBA		
EXHAUST SYSTEM					
Maximum Temperature 100% Standby	°C		550		
Exhaust Gas Flow 100% Standby	m³/m	50Hz	33.4		
Maximum Allowed Back Pressure	mbar		100		
Maximum Temperature 100% Standby	°C		510		
Exhaust Gas Flow 100% Standby	m³/m	60Hz	37.9		
Maximum Allowed Back Pressure	mbar		100		
FUEL SYSTEM					
	Material	Capacity	′ (L)		
Standard Tank	Steel	549			
Extended Tank (12hr)	Steel	N/A			
Extended Tank (24hr)	Steel	1120			
Diesel Specification		EN59	0		
SOUND PRESSURE					
LpA (1m) 100% Standby	dB(A)	50Hz	93.5		
LpA (Im) 100% Standby	dB(A)	60Hz	94.5		



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

ELECTRICAL FEATURES				
MAUX Excitation	•			
PMG Excitation	Δ			
Anti-Condensation Heater	Δ			
Moulded Case Circuit Breaker (3 Pole)	•			
Moulded Case Circuit Breaker (4 Pole)	Δ			
Motorised Circuit Breaker	Δ			
Earth Leakage Protection	Δ			
Alternate Voltages	Δ			
Emergency Stop Button	•			
Static Battery Charger	Δ			
Battery Isolator	Δ			
Standard: • Not Available: x Optional:	Δ			

MECHANICAL FEATURES			
Electronic Governor		•	
Coolant Level Sender			•
Radiator Guards			•
Hot Component Guards			Δ
Manual Oil Drain Pump			Δ
Water Jacket Heater			Δ
Pre-Filter with Separator			•
Fuel Level Sender		•	
3 Way Fuel Valve and Coupling N		Δ	
Bunded Base Tank		•	
Exhaust Bellows		Δ	
Industrial Silencer		Δ	
Residential Silencer			X
Fork Pockets			•
Standard: ●	Not Available: x	Optional: Δ	
STARTING SYSTEM			
Starting Battery			Δ
Battery Type		Lead	l Acid
Battery Capacity	9	96	
Number of Batteries		2	
Auxiliary Voltage	V	2	24

kW

Not Available: x

Starter Motor

Standard: •

5.0

Optional: Δ



JCB COMMUNICATION AND CONTROL	
DSE 73 I 0 – Auto Start	•
DSE 7320 – Auto Start with Mains Sensing	X
DSE 8610 – Set to Set Synchronisation	Δ
DSE 8620 – Set to Mains Synchronisation	Δ
JCB LiveLink	Δ
RS232 Connection	•
RS485 Connection	•
Bund Leak Alarm	Δ
High Engine Temperature Shutdown	•
Low Oil Pressure Shutdown	•
Common Alarm Volt Free Contact	Δ
Generator Running Volt Free Contact	Δ
Standard: ● Not Available: x Optional:	Δ

WEIGHT AND DIMENSIONS				
Length	mm	3050		
Width	mm	1088		
Height	mm	1750		
Shipping Volume (sea ready)	m^3	5.81		
Weight*	Kg	2380		

^{*}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
- Based on diesel fuel with a specific gravity of 0.85 and conforming to BSEN590

Information based on standard specification equipment unless otherwise stated.