





DIESEL GENERATOR

ELECTRICAL									
			Pr	ime	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	220/127V	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	
	1800 RPM		
Output Rating (PRP)	kW	223	
Output Rating (Standby)	kW	247	
Manufacturer and Model		Volvo TAD	734GE
Fuel		Diese	اد
Injection		Direc	t
Aspiration		Turbo Ch	arged
Cylinders		6	
Bore and Stroke	mm	108 x 130	
Displacement	L	7.15	
Cooling		Wate	
Engine Oil Specification		API CH4 I	
Compression Ratio		17.0 :	
Engine Oil Capacity	L	29.0	
Coolant Capacity	L	32.0	
Governor		Electro	
Air Filter		2 Stage	
Lube Oil Consumption @ 100%	L/hr	0.03	
FUEL CONSUMPTION			
100% Load Prime	L/h		53.6
75% Load Prime	L/h	FOLI	43.0
50% Load Prime	L/h	50Hz	30.6
100% Load Standby	L/h		59.1
100% Load Prime	L/h	L/h 57.2	
75% Load Prime	L/h	(0)	46.3
50% Load Prime	L/h	60Hz 33.3	
100% Load Standby	L/h		62.8

m ³ /h m ³ /s m ³ /s mmwg oC m ³ /h m ³ /s m ³ /s oC	50Hz 60Hz	978 3.42 0.53 30 50 1134 TBA 0.65 TBA TBA
m ³ /s m ³ /s m ³ /s mmwg oC m ³ /h m ³ /s m ³ /s oC		3.42 0.53 30 50 1134 TBA 0.65 TBA TBA
m ³ /s mmwg OC m ³ /h m ³ /s m ³ /s mmwg OC		0.53 30 50 1134 TBA 0.65 TBA TBA
mmwg OC m³/h m³/s m³/s mmwg OC		30 50 1134 TBA 0.65 TBA TBA
°C m³/h m³/s m³/s mmwg °C	60Hz	50 1134 TBA 0.65 TBA TBA
m ³ /h m ³ /s m ³ /s mmwg OC	60Hz	II34 TBA 0.65 TBA TBA
m ³ /s m ³ /s mmwg °C	60Hz	TBA 0.65 TBA TBA
m ³ /s mmwg °C	60Hz	0.65 TBA TBA
mmwg °C	60Hz	TBA TBA
°C		TBA
°C		
_		550
_		
		550
m³/m	50Hz	33.4
mbar		100
°C		510
m³/m	60Hz	37.9
mbar		100
Material	Capacity (L)	
Steel	549	
Steel	N/A	
Steel	1120	
	EN59	0
dB(A)	50Hz	93.5
dB(A)	60Hz	94.5
	o _C m³/m mbar Material Steel Steel Steel Steel	Material Capacity Steel 549 Steel N/A Steel 1120 EN59



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	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	Vest		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			7
Battery Type		Lead	Acid
Battery Capacity	Ah	9	6
Number of Batteries		2	<u>)</u>
Auxiliary Voltage	V	2	4

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.