



3520mm 1997mm

DIESEL GENERATOR

ELECTRICAL									
			Pri	me	Star	dby			
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Power Factor	Rated Speed (RPM)	Alternator
50	3	400/230V	400	320	440	352	0.8	1500	ECO40-1S/4B
60	3	480/277V	454	363	500	400	0.8	1800	ECO40-1S/4B
60	3	220/I27V	454	363	500	400	0.8	1800	ECO40-2S/4B
60	3	208/I20V	454	363	500	400	0.8	1800	ECO40-2S/4B

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	354	
Output Rating (Standby)	kW	389	
	1800 RPM		
Output Rating (PRP)	kW	392	
Output Rating (Standby)	kW	431	
Manufacturer and Model		Volvo TAD I	344GE
Fuel		Diese	
Injection		Direc	t
Aspiration		Turbo Ch	arged
Cylinders		6	
Bore and Stroke	mm	131 x 158	
Displacement	L	12.78	
Cooling		Wate	
Engine Oil Specification		API CH4 I	
Compression Ratio		18.1 :	1
Engine Oil Capacity	L	36.0	
Coolant Capacity	L	24.0	
Governor		Electro	
Air Filter		2 Stage	
Lube Oil Consumption @ 100%	L/hr	0.04	
FUEL CONSUMPTION			
100% Load Prime	L/h		79.0
75% Load Prime	L/h	FOLI	59.9
50% Load Prime	L/h	50Hz	40.8
100% Load Standby	L/h	87.2	
100% Load Prime	L/h		95.5
75% Load Prime	L/h	(01.1	71.6
0% Load Prime			
50% Load Prime	L/h	551.12	48.7

AIR SYSTEM					
Combustion Air Flow 100% Standby	m³/h		1680		
Radiator Cooling Air Flow 100% Standby	m³/s		5.85		
Alternator Fan Airflow	m³/s	50Hz	0.90		
Radiator Duct Allowance	mmwg		28		
Max Air On Temperature	°C		50		
Combustion Air Flow 100% Standby	m³/h		1980		
Radiator Cooling Air Flow 100% Standby	m³/s		8		
Alternator Fan Airflow	m³/s	60Hz	1.08		
Radiator Duct Allowance	mmwg		25		
Max Air On Temperature	°C		25		
EXHAUST SYSTEM					
Maximum Temperature 100% Standby	°C		465		
Exhaust Gas Flow 100% Standby	m³/m	50Hz	67.5		
Maximum Allowed Back Pressure	mbar		100		
Maximum Temperature 100% Standby	°C		490		
Exhaust Gas Flow 100% Standby	m³/m	60Hz	82.0		
Maximum Allowed Back Pressure	mbar		100		
FUEL SYSTEM					
	Material	Capacity	′ (L)		
Standard Tank	Steel	634			
Extended Tank (12hr)	Steel	870			
Extended Tank (24hr)	Steel	1740)		
Diesel Specification		EN59	0		
SOUND PRESSURE					
LpA (1m) 100% Standby	dB(A)	50Hz	103.7		
LpA (Im) 100% Standby	dB(A)	60Hz	105.9		



ALTERNATOR				
Poles	4			
Winding Connections	Parallel Star*			
Insulation	Class H			
Enclosure	IP23			
Exciter System	MAUX Excitation			
Voltage Regulator	AVR - DER			
Steady State Voltage Regulation	+/- 0.5%*			
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		Le	ad Acid
Battery Capacity	Ah		125
Number of Batteries		2	
Auxiliary Voltage	V		24

kW

Not Available: x

Starter Motor

Standard: •

7.0

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	3520		
Width	mm	1139		
Height	mm	1997		
Shipping Volume (sea ready)	m^3	8.01		
Weight*	Kg	3590		

^{*}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.