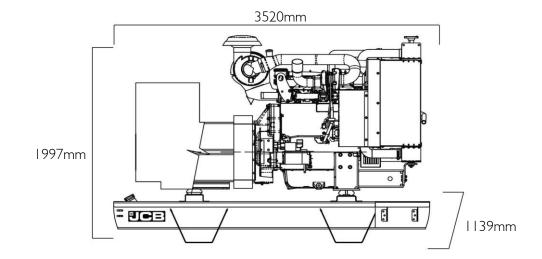
## G500S | Open Set







**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	455	364	500	400	0.8	1500	ECO40-3S/4B
60	3	480/277V	454	363	500	400	0.8	1800	ECO40-2S/4B
60	3	220/127V	454	363	500	400	0.8	1800	ECO40-2S/4B
60	3	208/120V	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

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# G500S | Open Set

100% Load Standby



ENGINE			
	1500 RPM		
Output Rating (PRP)	kW	388	
Output Rating (Standby)	kW	431	
	1800 RPM		
Output Rating (PRP)	kW	392	
Output Rating (Standby)	kW	431	
Manufacturer and Model		Volvo TAD	1345GE
Fuel		Diese	el
Injection		Direc	t
Aspiration		Turbo Ch	arged
Cylinders		6	
Bore and Stroke	mm	3  x  58	
Displacement	L	12.78	
Cooling		Wate	er
Engine Oil Specification		API CH4 I	5W 40
Compression Ratio		18.1 :	1
Engine Oil Capacity	L	36.0	)
Coolant Capacity	L	24.0	)
Governor		Electro	nic
Air Filter		2 Stag	•
Lube Oil Consumption @ 100%	L/hr	0.04	
FUEL CONSUMPTION			
100% Load Prime	L/h		90.4
75% Load Prime	L/h	FOLL	68. I
50% Load Prime	L/h	50Hz 46.1	
100% Load Standby	L/h		100.1
100% Load Prime	L/h		92.8
75% Load Prime	L/h	69.9	
50% Load Prime	L/h	60Hz	47.8

L/h

### **AIR SYSTEM**

Combustion Air Flow 100% Standby	m³/h		1656
Radiator Cooling Air Flow 100% Standby	m <sup>3</sup> /s	50Hz	5.09
Alternator Fan Airflow	m³/s		0.90
Radiator Duct Allowance	mmwg		20
Max Air On Temperature	°C		50
Combustion Air Flow 100% Standby	m³/h		1980
Radiator Cooling Air Flow 100% Standby	m³/s		TBA
Alternator Fan Airflow	m³/s	60Hz	1.08
Radiator Duct Allowance	mmwg		TBA
Max Air On Temperature	°C		TBA
EXHAUST SYSTEM			
Maximum Temperature 100% Standby	°C		570
Exhaust Gas Flow 100% Standby	m³/m	50Hz	58.3
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

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## G500S | Open Set



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	$\Delta$
Anti-Condensation Heater	Δ
Moulded Case Circuit Breaker (3 Pole)	•
Moulded Case Circuit Breaker (4 Pole)	Δ
Motorised Circuit Breaker	$\Delta$
Earth Leakage Protection	$\Delta$
Alternate Voltages	$\Delta$
Emergency Stop Button	•
Static Battery Charger	$\Delta$
Battery Isolator	$\Delta$
Standard: • Not Available: x Optiona	al: $\Delta$

#### **MECHANICAL FEATURES** Electronic Governor ٠ 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 Nest Δ Bunded Base Tank • Exhaust Bellows Δ Industrial Silencer Δ Residential Silencer Х Fork Pockets • Standard: • Not Available: x Optional: $\Delta$

STARTING SYSTEM				
Starting Battery		Δ		
Battery Type		Lead Acid		
Battery Capacity	Ah	125		
Number of Batteries		2		
Auxiliary Voltage	$\vee$	24		
Starter Motor	kW	7.0		
Standard: • N	lot Available: x	Optional: $\Delta$		



### **JCB COMMUNICATION AND CONTROL**

DSE 7310 – Auto Start	•
DSE 7320 – Auto Start with Mains Sensing	х
DSE 8610 – Set to Set Synchronisation	Δ
DSE 8620 – Set to Mains Synchronisation	$\Delta$
JCB LiveLink	Δ
RS232 Connection	•
RS485 Connection	•
Bund Leak Alarm	$\Delta$
High Engine Temperature Shutdown	•
Low Oil Pressure Shutdown	•
Common Alarm Volt Free Contact	$\Delta$
Generator Running Volt Free Contact	$\Delta$
Standard: • Not Available: x Optional:	Δ

WEIGHT AND DIMENSIONS				
Length	mm	3520		
Width	mm	1139		
Height	mm	1997		
Shipping Volume (sea ready)	m <sup>3</sup>	8.01		
Weight*	Kg	3765		

\*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.