



DIESEL GENERATOR **STAGE IIIA**

ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	Prime		Standby		MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
			kVA	kW	kVA	kW			
50	3	400/230V	500	400	550	440	800	800	1500
60	3	480/277V	569	455	625	500	800	800	1800

POWER FACTOR

3 Phase	0.8
1 Phase	1

MAXIMUM LOAD IMPACT*

kVA	TBC
kW	TBC

*With 20% voltage and 10% frequency deviation @ 50Hz, 400V

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528

Prime: This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchase 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: Standby Power (ESP) is the maximum output available, for up to 500 hours per year, where the average load (variable) does not exceed 70% of the standby power rating. No overload is available.

Stage IIIA models are only emissions compliant at 50Hz Prime Power in accordance with 97-68EC.

JCB GENERATOR TECHNICAL SPECIFICATIONS. Tel: +44 (0)1889 272200. www.jcbgenerators.com. JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories.

CANOPY		
Lockable Maintenance Access Doors		●
Control Panel Viewing Window		●
Oversized Fork Pockets		●
Welded Single Lift Point		●
Bunding		●
Certified 4 Point Lift		●
High Density Fire Retardant Foam		●
Yellow Paint		Δ
White Paint		●
Heavy Duty Rental Base		●
Drag Bar		Δ
Galvanised Steel Canopy		●
Standard: ● Not Available: x Optional: Δ		

ALTERNATOR HCI 544D	
Poles	4
Winding Connections	Star
Insulation	Class H
Enclosure	IP23
Exciter System	Self-regulating brushless
Voltage Regulator	AVR
Steady State Voltage Regulation	+/- 1%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Total Protection +

STARTING SYSTEM		
Starter Motor	kW	TBC
Battery Capacity	Ah	850
Number of Batteries		2
Auxiliary Voltage	V	12

ENGINE		
1500 RPM		
Net Output Rating (PRP)	kW	419
Net Output Rating (Standby)	kW	462
1800 RPM		
Net Output Rating (PRP)	kW	430
Net Output Rating (Standby)	kW	473
Manufacturer and Model		VOLVO TAD1651GE
Fuel		Diesel
Injection		Direct
Aspiration		Turbo Charged
Cylinders		6
Bore and Stroke	mm	144 x 165
Displacement	L	16.12
Cooling		Water
Engine Oil Specification		JCB EP 15W40
Compression Ratio		16.5 : 1
Engine Oil Capacity	L	40.00
Coolant Capacity	L	33.00
Governor		Electronic
Air Filter		Two stage Paper Element
Engine Oil Consumption	100% Load	0.1% of fuel consumed

FUEL SYSTEM		
Diesel Specification		EN590
Standard Capacity Fuel Tank	L	900
Extended Capacity Fuel Tank(Optional)	L	TBC

FUEL CONSUMPTION

100% Load Prime	L/h	50Hz	120.3
75% Load Prime	L/h		88
50% Load Prime	L/h		61.00
100% Load Standby	L/h		135.10
100% Load Prime	L/h	60Hz	120.3
75% Load Prime	L/h		88.0
50% Load Prime	L/h		61.0
100% Load Standby	L/h		135.1

EXHAUST SYSTEM

Maximum Temperature 100% Standby	°C	50Hz	487.00
Exhaust Gas Flow 100% Standby	m ³ /min		105.00
Maximum Allowed Back Pressure	kPa		8.00
Exhaust Discharge Size	mm	200	

AIR SYSTEM

Intake Air Flow 100% Standby	m ³ /h	50Hz	1918.80
Total Cooling Air Flow 100% Standby	m ³ /s		7.60

SOUND PRESSURE

LpA (7m)	50Hz	dB(A)	70
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MECHANICAL FEATURES

Cooling Pack	●
Air Filter	●
Mechanical Governor	x
Low Oil Pressure Switch	●
Coolant Temperature Sender	●
Oil Temperature Sender	●
Radiator Guards	●
Hot Component Guards	●
Manual Oil Drain Pump (Canopy)	Δ
Water Jacket Heater	Δ
Pre-Filter with Separator	●
Fuel Level Sender	●
Internal Fuel Fill (Belly Tank)	●
3 Way Fuel Valve	●
Residential Silencer	●
Air Shut-Off Valve	Δ
Electronic Governor	●
Spark Arrestor	Δ

Standard: ● Not Available: x Optional: Δ

ELECTRICAL FEATURES

AVR DSR	●
AVR DER	x
Winding Protection Standard	x
Winding Protection Standard +	x
Winding Protection Grey	x
Winding Protection Total	x
Winding Protection Total +	x
MAUX	x
PMG	Δ
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker	x
4 Pole Moulded Case Circuit Breaker	●
Earth Leakage Protection (Switchable)	●
Preparation for Earth Spike	●
Optional Voltages	Δ
Emergency Stop Button (Control Panel)	●
External Emergency Stop Button	●
AGM Battery	Δ
Socket Panel (1 x 32A – 3ph, 3 x 32A – 1ph) IP44	x
Socket Panel (1 x 63A – 3ph, 3 x 32A – 1ph) IP44	x
Socket Panel (1 x 63A – 3ph, 2 x 32A – 3ph, 3 x 32A – 1ph) IP44 (1 x 125A – 3ph) IP67	x
Bund Alarm / Shut down	Δ
Remote Display	x
50Hz / 60Hz Switch	Δ
Standard: ● Not Available: x Optional: Δ	

BATTERY FEATURES

Battery Isolator	●
Battery Type	SEALED LEAD ACID
Battery Size (Ah)	TBC
Number of Batteries	2
Battery Charger	Δ

JCB COMMUNICATION AND CONTROL

7320 MKII	●
8610 MKII (Synchronisation)	Δ
8620 (Synchronisation)	x
LiveLink for Power (MKII Panel Only)	●
Standard: ● Not Available: x Optional: Δ	

WEIGHT AND DIMENSIONS

Length	mm	4832
Width	mm	1610
Height	mm	2334
Shipping Volume (sea ready)	m ³	18.20
Weight*	Kg	6800

*Standard build with all fluids except fuel

CE PACK

EMC Certification	●
Hot Guards	●
Belt Guards	●
Sound Power Decal	●
EU Declaration for Engine Emissions	●
Complete Machine Declaration of Conformity	●
Standard: ● Not Available: x Optional: Δ	

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
 - 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
- Information based on standard specification equipment unless otherwise stated.