

# SUPPORTING LIFE 24x7

## **JCB 125kVA**

POWERED BY NATURAL GAS



High Efficiency  
Gas Engine



Compact  
in Size



Best-in-class  
Aesthetics



Safe and Sturdy



Single Window  
Product Support



To know more



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**ENVIRONMENT FRIENDLY**

## SPECIFICATION: JCB 125kVA

ELECTRICAL			
FREQUENCY	VOLTAGE	PRIME	STAND BY
50Hz	415 / 240V	125kVA/100kW	137.5kVA/110kW
Phase	3 Phase		
Rated Speed	1500RPM		
Circuit Breaker	4 pole		
Power Factor	0.8		

All ratings as per ISO8528

ALTERNATOR	
Poles (Nos)	4
Winding Connections	Star
Insulation Class	H
Ingress Protection Rating	IP23
Exciter System	Self-regulating brushless
Voltage Regulator	DSRL
Steady State Voltage Regulation (%)	+/- 1.0
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan

MAXIMUM LOAD ACCEPTANCE IN A SINGLE STEP
60% - G2 Class

**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% overload power can be supplied for 1 hour in 12.

**Standby:** 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.

ENGINE		
Model	mPOWER61565Gc	
Output Rating	kW	114.7
Fuel	Natural Gas -ISO15958 :2012	
Ignition	Spark (Shielded)	
Aspiration	Turbo Charged, After Cooled	
Cylinders (Nos)	6	
Displacement	L	7.12
Cooling	Ethelene Glycol 50:50	
Engine Oil	Water	
Specification	15W40 API CI4+	
Compression Ratio	11.5:1	
Engine Oil Capacity	L	20.2
Oil Consumption at Full Load	% of Fuel Consumption	< 0.15
Coolant capacity	L	24
Governor Type, Class	ECU, G2(ISO8528 Part 5)	
Air Filter	Dry Type	
Fuel Consumption	Kg/Hr.	25
75% Load Prime	Kg/Hr.	20

STARTING SYSTEM		
Starter Motor	kW	4.2
Battery Capacity	Ah	150
Auxiliary Voltage	V	24

EXHAUST SYSTEM		
Maximum Temperature 100% Standby	°C	750-850
Exhaust Gas Flow 100% Standby	Kg/h	525
Maximum Allowed Back Pressure	mm of Hg / kPa	86.2 / 11.5

AIR SYSTEM		
Maximum allowable restriction dirty air filter	mm of H2O / kPa	600 / 5.9
Air requirement for combustion at Rated power	Kg/h	375

FUEL SYSTEM		
Gas Specification	Natural Gas (ISO 15958:2012)	
Storage Tank Capacity	NA (Gas available on Pipe)	
Gas Pressure	bar	0.8 - 2.0

WEIGHT AND DIMENSIONS - CANOPY		
Length	mm	3750
Width	mm	1300
Height	mm	1750
Silencer	<b>Inside Enclosure</b>	
Dry Weight (Standard Build inclusive of coolant and oil )	Kg	2150
Sound Level @ 1m	dB (A)	< 75

CONTROL PANEL		
Panel	mm	1.5 Sheet Steel
Controller	Deepsea	7320MKII(Integrated)
Battery Charger	24 V	Optional
MCCB	Amp	200
USB Access for Scada	Portable	On Front Door
Door Limit Switch	Safety	Breaker Door Open
Earth Leakage Protection	Safety	ELR Protection
Live Link	Live Link Lite (Std.)	

DISPLAY PARAMETERS	AUDIO-VISUAL WARNING	SHUT-DOWN WITH AUDIO-VISUAL ANNUNCIATION
Engine RPM	Low Oil pressure	<b>Low Oil Pressure</b>
Coolant temperature	High Coolant temp.	<b>High coolant temp.</b>
Oil Pressure	Low Battery Voltage	<b>Engine Over Speed</b>
Battery Voltage	High Battery Voltage	<b>Engine Under Speed</b>
DG Set Run Hours	Fail To Start	<b>Gas Leakage Detection</b>
Gas Leakage PPM	Charge Alt. Failure	<b>ECU Active DTC</b>
Gen. Voltage (Ph-N & Ph-Ph)	Over Voltage	<b>Over Current</b>
Gen. Voltage (Ph-N & Ph-Ph)	Under Voltage	<b>Overload</b>
Gen. Frequency	Under Frequency	<b>Over Frequency</b>
Gen. Current (Ph-N & Ph-Ph)	Over Current	<b>Breaker Door Open</b>
Power Factor	Fail To Stop	<b>CAN Link Fail</b>
kVAr	Emergency Stop	<b>Over Voltage</b>
kW	Engine Error Messages	<b>Emergency Stop</b>
kVA	Earth Leakage Protection	<b>Earth Leakage Protection</b>
Active DTC Error Codes	<b>Shunt Trip Protection</b>	
Real Time Clock		
Auto/Manual Mode		

- Ambient reference conditions 1 bar, 25°C, 30% relative humidity ISO8528
- Power according to ISO3046
- Maximum unbalance Load across phase shall be 25%.
- Information based on standard specification equipment unless otherwise stated
- Conformance Standards IS 1460,ISO 8528,ISO 3046,IS 13018
- Power availability will vary based on Methane composition of the supplied Gas (minimum 85% methane is recommended).
- Oil consumption data is based on oil having Specific gravity of 0.89
- Above specifications are subjected to change without notice due to continuous technical developments.

## EXCEEDING EXPECTATIONS EVERYWHERE

**5000+**  
Trained service engineers

**3000+**  
Mobile service engineers

**18** Operator training centres

**60+** Dealers

**700+** Outlets

**5** Parts warehouses

**250+** Service vans

**24x7 Support**  
12 Languages

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