



# JCB ENERGY ELECTRIC POWER INDUSTRY

MADRID / SPAIN



[www.jcbenergy.es](http://www.jcbenergy.es)



## GENERATOR GENERAL INFORMATION

GENERATOR	FREQUENCY	VOLTAGE	POWER FACTOR	SPEED	DIESEL ENGINE		ALTERNATOR		TYPE OF	GENERATOR OUTPUT				
Model	Hz	V	Cos Q	Rpm	Brand	Model	Series	Brand	Model	Series	Operation	kVA	kW	A
JDD 345	50	231/400	0.8	1500	DOOSAN	P126TI-II	P	JCBENERGY	JCB	270LXA	Standby	345,0	276,0	498,6
											Prime	313,6	250,9	453,2
											Continuous	219,5	175,6	317,3
JDD 400	60	277/480	0.8	1800	DOOSAN	P126TI-II	P	JCBENERGY	JCB	270LXA	Standby	400,0	320,0	578,0
											Prime	363,6	290,9	525,5
											Continuous	254,5	203,6	367,8

- Diesel Engines with Advanced Technology and Quality
- Alternators with Advanced Technology and Quality
- Low Exhaust Emission
- Control Panel Suitable for Flexible Application
- Patented Compact Designed and Sound proof Canopy
- Low Operating Cost, Suitable for Heavy-Duty
- Durability , Low Noise Level

- Tropical 50 °C Radiator, First Class Product Support
- Fuel Filter with Water and Particle Separator
- Low Fuel Consumption, Low Oil Consumption
- Global Technical Service and Maintenance Support
- Wide Range of Affordable Spare Parts
- High Quality and Reliable Technology
- Half Century Experience in Generator Manufacturing

### STAND BY POWER RATING – (ESP):

ESP is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Stand by Power rating. This rating should be applied where reliable utility power is available. A Stand By rated engine should be sized for a maximum of an 70% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Stand by Power rating. Stand By ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency.

### PRIME POWER RATING – (PRP):

Applicable for supplying electric power in lieu of commercially purchased power. Prime Power applications must be in the form of one of the following two categories:

#### UNLIMITED TIME RUNNING PRIME POWER (ULTP):

PRP (Prime Power) is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours. The total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

#### LIMITED TIME RUNNING PRIME POWER (LTP):

LTP (Limited Time Prime Power) is available for a limited number of hours in a no variable load application. It is intended for use in situations where power outages are contracted, such as in utility power curtailment. Engines may be operated in parallel to the public utility up to 750 hours per year at power levels never to exceed the Prime Power rating. The customer should be aware, however, that the life of any engine will be reduced by this constant high load operation. Any operation

#### CONTINUOUS POWER RATING (COP):

COP is the power that the engine can continue to use under the prescribed speed and the specified environment condition in the normal maintenance period stipulated in the manufacturing plant. And Continuous Power is applicable for supplying utility power at a constant 100% load for an unlimited number of hours per year. No overload capability is available for this rating.



## PAY ATTENTION TO THE POINTS BELOW IN PICKING AND USING THE GENERATOR

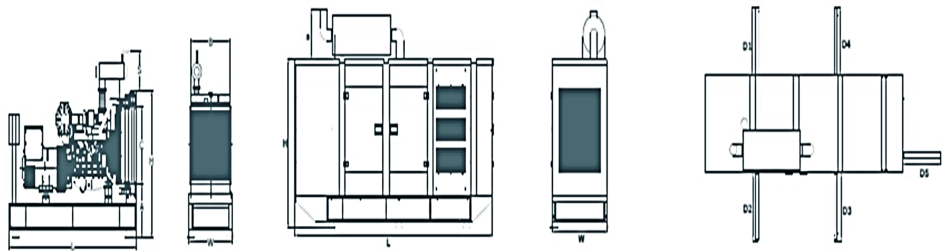
- \* Generators can work on Continuous Power at 70% of Prime power value if only all maintenances are done on time with original spare parts and high-quality oils that manufacturer advice.
- \* Generators should not operate below 50% of Prime Power value. In such a case, the engine will burn excessive oil and eventually have irreparable damage.
- \* If your need is 1000 kVA or above, you should prefer Synchronic Systems with 2-3 generators with failure back up and simultaneous aging.
- \* These points will provide advantage for you with purchasing and operating the generator.

## GENERATOR DIMENSIONS AND TECHNICAL DRAWINGS



VALUES		OPEN TYPE GENERATOR	CANOPY TYPE GENERATOR
WIDTH	mm	1100	1140
LENGTH	mm	3095	4100
HEIGHT	mm	1782	1900
WEIGHT (NET)	Kg	2163	2600
FUEL TANK CAPACITY	L	475	678

SYMBOL	OPEN	CANOPY
L	3095	4100
W	1100	1140
H	1598	2000
S	184	600
A	766	
B	810	
C	860	
D1		850
D2		850
D3		850
D4		850
D5		850



## FUEL CONSUMPTION

PERCENT OF PRIME POWER	1500 rpm		1800 rpm	
	g/kWh	l/hr	g/kWh	l/hr
110 %	200,0	69,6	200,0	80,9
100 %	195,0	61,2	195,0	70,8
75 %	197,0	46,3	197,0	53,7
50 %	212,0	33,2	212,0	38,5



# JDD 345 & 400

231 / 400 V – 50 Hz & 277 / 480 V – 60 Hz



## DIESEL ENGINE MAIN TECHNICAL PARAMETERS

### GENERAL ENGINE DATA

Engine Model	P126TI-II
Engine Type	4-Cycle, In-line, 6-Cylinder Diesel, Water Cooled, Turbo Charged & Intercooled
Bore x Stroke	123 x 155 mm
Displacement	11.051 liters
Compression Ratio	17.1 : 1
Rotation	Counter clockwise viewed from Flywheel
Firing Order	1-5-3-6-2-4
Fuel System	Zexel in-line "P" type
Governor	Electronic
Governor Class	G3

### Cooling System

Total System Coolant Capacity	19L
Thermostat Operation Range	80~90°C
Maximum Temperature to Engine	105°C
Minimum Temperature to Engine	70°C
Coolant Temperature Alarm	105°C
Limits of the Environment Temperature	52°C

### Lubrication System

Lubrication Oil Capacity	23L
Lubrication Oil Pressure	min 250 kPa (50Hz) /min 300 kPa (60Hz)
Lubrication Oil Temperature	At normal operation 105°C, Maximum 125°C
Lubrication Oil Consumption as % Fuel Consumption	0.1 % maximum
Pressure of Oil Relief Valve Opening	550 ± 50 kPa

### Electrical System

Alternator	28.5V x 45A alternator
Starter Motor	24V x 6.0 kW

### FAN

Diameter	755mm
Number Of Blade	7
Material	Plastic

### DOOSAN INFRACORE GENSET ENGINE

Engine Model	rpm	Gross Engine Output(kWm)		Typical Generator Output (kVa)	
		Stand-by	Prime	Stand-by	Prime
P126TI-II	1500	294	265	342	308
	1800	342	307	398	357

## JCB ALTERNATOR TECHNICAL PARAMETERS AND SPECIFICATIONS






### ALTERNATOR TECHNICAL PARAMETERS

<b>Insulation Class</b>		H	<b>Field Control System</b>		Self-Excited
<b>Winding Pitch</b>		2/3 - (N° 6)	<b>A.V.R. Model</b>	Standard	AS440
<b>Wires</b>		12	<b>Voltage Regulation</b>	%	± 1
<b>Protection</b>		IP 23	<b>Sustained Short-Circuit Current</b>	10 sec	300% (3 IN)
<b>Altitude</b>	m	1000	<b>Total Harmonic (*) TGH / THC</b>	%	< 4
<b>Overspeed</b>	rpm	2250	<b>Wave Form: NEMA = TIF - (*)</b>		< 50
<b>Air Flow</b>	m³/sec.	0.514	<b>Wave Form: I.E.C. = THF - (*)</b>	%	< 2
<b>Bearing Drive</b>	N/A	-	<b>Bearing Non-Drive</b>	Bearing	6310-2RZ
<b>Rotor Winding</b>	100%	Copper	<b>Stator Winding</b>	100%	Copper

### 50 HZ / 231-400V COSQ 0,8 / 1500 RPM

#### STANDARD USING ALTERNATOR




#### OPTIONAL USING ALTERNATOR

BRAND/MODEL		JCB 270LXA		TAL046F		S4L1D-D4			
<b>DUTY</b>			Continuous			Stand By			
<b>AMBIENT</b>	C°		40°C			27°C			
<b>CLASS / TEMP. RISE</b>	C°		H/ 125° K			H/ 163° K			
<b>SERIES STAR</b>	V	<b>380/220</b>	400/231	<b>415/240</b>	1 Phase	<b>380/220</b>	400/231	<b>415/240</b>	1 Phase
<b>PARALLEL STAR</b>	V	<b>190/110</b>	200/115	<b>208/120</b>	220	<b>190/110</b>	200/115	<b>208/120</b>	220
<b>SERIES DELTA</b>	V	<b>220</b>	230	<b>240</b>	230	<b>220</b>	230	<b>240</b>	230
<b>OUTPUT POWER</b>	kVA	<b>318,0</b>	318,0	<b>330,0</b>	-	<b>350,0</b>	350,0	<b>363,0</b>	-
<b>OUTPUT POWER</b>	kW	<b>254,4</b>	254,4	<b>264,0</b>	-	<b>280,0</b>	280,0	<b>290,4</b>	-

### 60 HZ / 277-480V COSQ 0,8 / 1800 RPM

#### STANDARD USING ALTERNATOR

#### OPTIONAL USING ALTERNATOR

BRAND/MODEL		JCB 270LXA		TAL046F		S4L1D-D4			
<b>DUTY</b>			Continuous			Stand By			
<b>AMBIENT</b>	C°		40°C			27°C			
<b>CLASS / TEMP. RISE</b>	C°		H / 125° K			H / 163° K			
<b>SERIES STAR</b>	V	<b>416/240</b>	440/254	<b>480/277</b>	1 Phase	<b>416/240</b>	440/254	<b>480/277</b>	1 Phase
<b>PARALLEL STAR</b>	V	<b>208/120</b>	220/127	<b>240/138</b>	-	<b>208/120</b>	220/127	<b>240/138</b>	-
<b>SERIES DELTA</b>	V	<b>240</b>	254	<b>277</b>	240	<b>240</b>	254	<b>277</b>	240
<b>OUTPUT POWER</b>	kVA	<b>358,0</b>	377,0	<b>398,0</b>	-	<b>394,0</b>	415,0	<b>437,0</b>	-
<b>OUTPUT POWER</b>	kW	<b>286,4</b>	301,6	<b>318,4</b>	-	<b>315,2</b>	332,0	<b>349,6</b>	-

## CONTROL MODULE ALERTS

Emergency Stop Malfunction  
 High Generator Frequency  
 Low Generator frequency, Low Load  
 Over Current, Unbalanced Current  
 Low Generator Voltage  
 High generator Frequency  
 Phase sequence error  
 Overload, Heat Sensor Broken  
 Low Water Level (Optional)  
 Low Oil Pressure, Reverse Power  
 Low Water Temperature


Start Error, Stop Error  
 Magnetic Pickup Error  
 Charge Alternator Error  
 Unbalanced Load  
 Maintenance Time Alarm  
 Low Speed, High Speed  
 Broken Oil Sensor Cable  
 High Oil Temperature (Optional)  
 Low Fuel Level (Optional), High Battery Voltage  
 Low Battery Voltage, High Water Temperature  
 Electronic Can bus Errors (ECU)

## CONTROL PANEL SPECIFICATIONS



- Powder Painted Steel Panel with Lockable Door
- ATS (Automatic Transfer Panel)- Optional
- Control Module
- Battery Charger
- Emergency Stop Button
- Terminal Blocks
- Load Output Terminal
- System Protection MSBs
- Circuit Breaker-Optional
- LCD Screen
- Control Relays
- Backlit, 128x64 Pixels

## CONTROL MODULE TECHNICAL PARAMETERS

Brand		Brand	Trans-MIDIAMF.232.GP
Dimensions	120mmx94mm.	Protection Class	IP65 From the Front
Weight	260 gr.	Environmental Conditions	2000 meters above sea level
Ambient Humidity	Max. %90.	Ambient Temperature	-20°C to +70°C
DC Battery Supply Voltage	8 - 32 V	Battery Voltage Measurement	8 – 32 V
Network Frequency	5 - 99,9 Hz	Mains Voltage Measurement	3 - 300 V phase -Neutral, 5 - 99,9 Hz
Generator Voltage Measurement	3 - 300 V	Generator Frequency	5 - 99,9 Hz
Current Transformer Secondary	5A	Working Period	Continuous
Charge Alternator Voltage Measurement	8 - 32 V	Charge Alternator Excitation	210mA &12V, 105mA &24V Nominal 2.5W
Communication Interface	RS-232	Analog Sender Measurement	0 - 1300ohm
Generator Contactor Relay Output	5A & 250V	Mains Contactor Relay Output	5A & 250V
Solenoid Transistor Outputs	1A with DC Supply	Start Transistor Outputs	1A with DC Supply
Configurable-3 Transistor Outputs	1A with DC Supply	Configurable-4 Transistor Outputs	1A with DC Supply

## CONTROL MODULE FUNCTION

Mains Voltage Level Control	Generator Voltage Level Control	3 Phase Generator Protections	3 Phase AMF Function	Alarm Horn
Network Frequency Level Control	Generator Frequency level Control	- High / Low Voltage	- High / Low Frequency	Heater Tube Thermostat Control
Engine Operating Option Control	Generator Current Level Control	- High / Low Frequency	- High / Low Voltage	Modbus and SNMP
Engine Stop Option Control	Generator Powder Level Control	- Current / Voltage Asymmetry	- High / Low Water Temperature	Working Hour
Engine Speed (RPM) Level Control	Generator work Schedule and Timing Control	- Overcurrent / Overload	- High / Low Load	Ground Leakage
Battery Voltage Options Times	Oil Pressure Controllers Control	Overheat Control	Mains., Generator ATS Control	Analog Modem
Check Engine Maintenance Times	Configurable Analog Inputs and Outputs	1 Phase or 3 Phase, Phase Selection	Network, Voltage, Frequency Display	Ethernet, USB, RS232, RS485
Communication Interfaces GPRS, GSM	Keeping Error Records of Past Events	Parameter Setting via Control Module	Parameter Setting via Computer	Selectable Protection Alarm / Shutdown
Engine Speed, Voltage, Earning	Configurable Programmable Digital Inputs and Outputs	Water Temperature Current and Frequency	Hours of Operation Phase sequence	Battery Voltage Oil Pressure

## SOUND PROOF CANOPY AND BASE FRAME (CHASIS) SPECIFICATIONS



- Special, Registered JCB Energy Design and Colour
- A1 Quality DKP / HRU / Galvanized Steel
- Sensitive Twist on Automatic Press Brake
- Delicate Cut on Automatic Punch and Laser Bench
- Sensitive Welding on Robotic Welding Bench
- Chemical Cleaning Nano Technology Before Painting
- Robotic Painting with Electrostatic Powder Paint
- Drying and stabilizing on 200 °C Ovens
- 1500 Hour Salt Test
- Glass wool Isolation, A1 Class Material -50/+500 °C
- Special Covering Over Glass Wool
- Best Sound Level (in Dba)
- Temperature Tests
- Rustproof Accessories
- Cable Exit Connectors and Glands
- Emergency Stop Button
- Fuel Level Gauge
- Fuel Drain Cap
- Fuel Inlet and Return Records
- I permeability Test for Fuel Tank
- Vacuumed Rubber Mounted
- High Quality weatherstrips
- High Quality Shock Absorbers
- Fuel Filling Cap (with ventilation)
- Lifting and Carrying Equipment
- Internal Exhaust Mufflers (Silencers)
- External Exhaust Mufflers (Silencers)
- Radiator water Filling Cap
- Daily Fuel Tank, External Fuel Tank



# Our Quality Certificates

**Certificate of Registration** 

This is to certify that the Quality Management System of

**JCBENERGY**

JCB ENERGY ELECTRIC POWER INDUSTRY  
 CALLE DE TRESPADERNE, NUM 7 PLANTA 3, PUERTA C 28042 MADRID - (MADRID), SPAIN

is in accordance with the requirements of the following standard

**ISO 9001:2015**  
 (Quality Management System)

**SCOPE**

MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES  
 (IAF Code: 18,19)


Certificate Number : 251022013422

Initial Registration Date : 25-Oct-2023  
 1<sup>st</sup> Surveillance Date : 25-Sep-2024  
 2<sup>nd</sup> Surveillance Date : 25-Sep-2025  
 Certificate Expiry Date : 24-Oct-2026

To verify certificate, visit at:  
[www.arscert.com](http://www.arscert.com)  
<https://www.iafacreditation.org>  
<https://www.iafcertsearch.org/>

Issued by ARS Assessment Private Limited  
  
 Managing Director



IAF Address : 401, North Center Dr., STE 202, Norfolk, VA 23502, United States of America  
 This certificate is issued in accordance with the requirements of the standard as published by the International Organization for Standardization (ISO). The certificate holder is responsible for ensuring the validity of the certificate and for maintaining the certificate in accordance with the requirements of the standard. The certificate holder is also responsible for ensuring the validity of the certificate and for maintaining the certificate in accordance with the requirements of the standard.

**Certificate of Registration** 

This is to certify that the Environmental Management System of

**JCBENERGY**

JCB ENERGY ELECTRIC POWER INDUSTRY  
 CALLE DE TRESPADERNE, NUM 7 PLANTA 3, PUERTA C 28042 MADRID - (MADRID), SPAIN

is in accordance with the requirements of the following standard

**ISO 14001:2015**  
 (Environmental Management System)

**SCOPE**

MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES  
 (IAF Code: 18,19)

Certificate Number : 25102202423

Initial Registration Date : 25-Oct-2023  
 1<sup>st</sup> Surveillance Date : 25-Sep-2024  
 2<sup>nd</sup> Surveillance Date : 25-Sep-2025  
 Certificate Expiry Date : 24-Oct-2026


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**CERTIFICATE OF REGISTRATION** 

This is to certify that the Management System of

**JCBENERGY**

JCB ENERGY ELECTRIC POWER INDUSTRY  
 CALLE DE TRESPADERNE, NUM 7 PLANTA 3, PUERTA C 28042 MADRID - (MADRID), SPAIN

is in accordance with the requirements of the following standard

**ISO 27001:2013**  
 (Information Security Management System)


**SCOPE OF CERTIFICATION**




PROTECTION OF RECORDS AND INFORMATION ASSETS IN MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES

Certificate Number : QCAS-JCB-23-05158813


Initial Certification Date : 25 Oct 2023      Date of Expiry : 24 Oct 2026  
 1st Surveillance Date : 25 Sep 2024      2nd Surveillance Date : 25 Sep 2025

Verify the Certificate: <https://gaafs.us/site/search/>

Issued by QCAS Certifications Inc.  
  
 Managing Director

QCAS Address: 10000, Redwood Avenue, 95760, Redwood City, CA, 94065  
 This certificate is issued in accordance with the requirements of the standard as published by the International Organization for Standardization (ISO). The certificate holder is responsible for ensuring the validity of the certificate and for maintaining the certificate in accordance with the requirements of the standard. The certificate holder is also responsible for ensuring the validity of the certificate and for maintaining the certificate in accordance with the requirements of the standard.

**Certificate of Registration** 

This is to certify that the Occupational Health and Safety Management System of

**JCBENERGY**

JCB ENERGY ELECTRIC POWER INDUSTRY  
 CALLE DE TRESPADERNE, NUM 7 PLANTA 3, PUERTA C 28042 MADRID - (MADRID), SPAIN

is in accordance with the requirements of the following standard

**ISO 45001:2018**  
 (Occupational Health and Safety Management System)


**SCOPE**


MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES  
 (IAF Code: 18,19)


Certificate Number : 251022013424

Initial Registration Date : 25-Oct-2023  
 1<sup>st</sup> Surveillance Date : 25-Sep-2024  
 2<sup>nd</sup> Surveillance Date : 25-Sep-2025  
 Certificate Expiry Date : 24-Oct-2026

To verify certificate, visit at:  
[www.arscert.com](http://www.arscert.com)  
[www.iafacreditation.org](https://www.iafacreditation.org)  
<https://www.iafcertsearch.org/>

Issued by ARS Assessment Private Limited  
  
 Managing Director



IAF Address : 401, North Center Dr., STE 202, Norfolk, VA 23502, United States of America  
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**CERTIFICATE OF REGISTRATION** 

This is to certify that the Management System of

**JCBENERGY**

JCB ENERGY ELECTRIC POWER INDUSTRY  
 CALLE DE TRESPADERNE, NUM 7 PLANTA 3, PUERTA C 28042 MADRID - (MADRID), SPAIN

is in accordance with the requirements of the following standard

**ISO 50001:2018**  
 (Energy Management System)

**SCOPE OF CERTIFICATION**

MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES

Certificate Number : QCAS-JCB-23-05158814

Initial Certification Date : 25 Oct 2023      Date of Expiry : 24 Oct 2026  
 1st Surveillance Date : 25 Sep 2024      2nd Surveillance Date : 25 Sep 2025

Verify the Certificate: <https://gaafs.us/site/search/>

Issued by QCAS Certifications Inc.  
  
 Managing Director

QCAS Address: 10000, Redwood Avenue, 95760, Redwood City, CA, 94065  
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# JCB Energy Electric Power Industry S.L.

HAS OUR TOTAL SUPPORT

We are pleased to certify that this company, with its registered office (address as below) is fully authorized as an Original Equipment Manufacturer partner to incorporate Mecc Alte AC Generators when selling and distributing generating sets.

Mecc Alte also certifies that its product sold to this company are fully covered by the Mecc Alte Warranty.

Mecc Alte provides this company access to its extensive product knowledge in order to incorporate Mecc Alte AC Generators when selling and distributing generating sets.

World class alternators 1-5000kVA.

APPROVED MANUFACTURER

Radek Mivoca



CERTIFICADO  
M008993

VALIDA HASTA  
29 December 2024

COMPANY ADDRESS  
C/Av. de Tréspaderne, 7, Pta. C, 28042 Madrid, Spain



GCR CERT

## CERTIFICATE



### JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE DE TRESPADERNE, NUM 7  
PLANTA 3, PUERTA C  
28042 MADRID - (MADRID), SPAIN

In recognition of the organization's Management System which complies with

#### GDP

The scope of activities covered by this certificate is defined below

MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES

Certificate Number : GCR/CERT-11.2023.3586  
Certificate Issue Date : 01.11.2023  
Certificate Validity : 31.10.2024

Abimanyu Gaurav  
Abimanyu Gaurav  
Approval



GCR CERT

## CERTIFICATE



### JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE DE TRESPADERNE, NUM 7  
PLANTA 3, PUERTA C  
28042 MADRID - (MADRID), SPAIN

In recognition of the organization's Management System which complies with

#### GHP

The scope of activities covered by this certificate is defined below

MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES

Certificate Number : GCR/CERT-11.2023.3587  
Certificate Issue Date : 01.11.2023  
Certificate Validity : 31.10.2024

Abimanyu Gaurav  
Abimanyu Gaurav  
Approval



GCR CERT

## CERTIFICATE



### JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE DE TRESPADERNE, NUM 7  
PLANTA 3, PUERTA C  
28042 MADRID - (MADRID), SPAIN

In recognition of the organization's Management System which complies with

#### ISO 22716:2013:GMP GOOD MANUFACTURING PRACTICES

The scope of activities covered by this certificate is defined below

MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES

Certificate Number : GCR/CERT-11.2023.3585  
Certificate Issue Date : 01.11.2023  
Certificate Validity : 31.10.2024

Abimanyu Gaurav  
Abimanyu Gaurav  
Approval



GCR CERT

## CERTIFICATE

### HEALTHY & SAFE WORKPLACE CERTIFICATE

#### JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE DE TRESPADERNE, NUM 7  
PLANTA 3, PUERTA C  
28042 MADRID - (MADRID), SPAIN

It has been entitled to obtain a Healthy and Safe Workplace Certificate by fulfilling the requirements for COVID-19 measures, within the physical conditions of the business with in the scope of the Healthy and Safe Workplace Certificate program.

FACTORIES - PRODUCTION LOCATIONS:  
ELECTRICAL AND ELECTRONICS INDUSTRY

Certificate Number : GCR/CERT-10.2023.3600  
Certificate Issue Date : 07.11.2023  
Certificate Validity : 06.11.2024

Abimanyu Gaurav  
Abimanyu Gaurav  
Approval



GCR CERT

## CERTIFICATE



### JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE DE TRESPADERNE, NUM 7  
PLANTA 3, PUERTA C  
28042 MADRID - (MADRID), SPAIN

In recognition of the organization's Management System which complies with

#### ISO 10002:2018

The scope of activities covered by this certificate is defined below

MANUFACTURING, SALES AND SERVICE OF GENERATOR AND GENERATOR COMPLEMENTS, WATER PUMP, FORKLIFT, UPS, REGULATOR, CONVERTERS, SHUTTER POWER SUPPLIES

Certificate Number : GCR/CERT-10.2023.3525  
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Abimanyu Gaurav  
Abimanyu Gaurav  
Approval





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