JCB ENERGY ELECTRIC POWER INDUSTRY

JUENERGY

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MADRID / SPAIN





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





GENERATOR GENERAL INFORMATION

GENERATOR	FREQUENCY	VOLTAGE	POWER FACTOR	SPEED	DIESEL E			ALTERN	IATOR		TYPE OF	GENERAT	FOR OUTPL	л
Model	Hz	V	Cos Q	Rpm	Brand	Model	Series	Brand	Model	Series	Operation	kVA	kW	A
								ų			Standby	2.750,0	2.200,0	3.974,0
JCN 2750	50	231/400	0.8	1500						450L	Prime	2.500,0	2.000,0	3.612,7
						V24001CI	MIL	ENERGY			Continuous	1.750,0	1.400,0	2.528,9
					JCN	Y3400JCI	YII	וני	JCB	450M	Standby	2.750,0	2.200,0	3.974,0
JCN 2750	60	277/480	0.8	1800				ିର୍ଦ୍			Prime	2.500,0	2.000,0	3.612,7
								·			Continuous	1.750,0	2.200,0 2.000,0 1.400,0 2.200,0 2.000,0 2.000,0	2.528,9
	Engines with Adators with Adators with Adva		0,	•			•				Product Suppo	ort		

Low Fuel Consumption, Low Oil Consumption

Wide Range of Affordable Spare PartsHigh Quality and Reliable Technology

Global Technical Service and Maintenance Support

Half Century Experience in Generator Manufacturing

- 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

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.



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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.

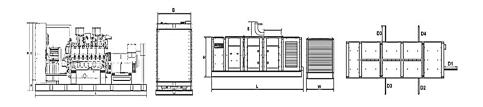
GENERATOR DIMENSIONS AND TECHNICAL DRAWINGS





VALUES		OPEN TYPE GENERATOR	CANOPY TYPE GENERATOR
WIDTH	mm	2400	2430
LENGTH	mm	7500	12000
HEIGHT	mm	3100	3300
WEIGHT (NET)	Kg	18000	24500
FUEL TANK CAPACITY	L	4000	4000

SYMBOL	OPEN	CANOPY
L	7500	12000
W	2400	2430
н	3100	2500
S		800
Α	300	
В	2260	
С	2400	
D1		1044
D2		1044
D3		1044
D4		1044
D5		1044



FUEL CONSUMPTION

PERCENT OF PRIME POWER	1500 rpm	1800 rpm
	l/hr	l/hr
110 %	550,26	550,26
100 %	504,44	504,44
75 %	380,23	380,23
50 %	266,16	266,16





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DIESEL ENGINE MAIN TECHNICAL PARAMETERS

GENERAL		
		10
Number of Cylinders		16
Configuration		V-Туре
Aspiration		Turbocharged & Intercooled
Combustion System		Direct Injection
Compression Ratio		13.5:1
Bore	mm	200
Stroke	mm	210
Displacement	L	105,56
Governing Type		ECU
Governing Class		G3
Rotation		Counterclockwise
		L1-R1-L6-R6-L2-R2-L5-R5-L8-R8-L3-R3-L7
Firing Order		R7-L4-R4
Emission		Tier II
Moments of Rotation Inertia		
Engine	Kg - m²	44,42
Flywheel	Kg - m ²	29,36
Performance Rating	ייי סיי	20,00
Speed Droop	%	≤1
	%	≤0,5
Steady State Speed Band	70	50,5
FILTERS		Des Turs Desdessable
Air Filter		Dry Type, Replaceable
Fuel Filter		With Water Separator
Oil Filter		Element Type, Particulate Trap
FLYWHEEL HOUSING AND FLEX COUPLING		
Flywheel Housing	SAE (J620)	00
Flex Coupling Disc	Inch (")	21
TEST CONDITIONS		
Ambient Temperature	%	25
Atmospheric Pressure	КРа	100
Relative Humidity	Rh (%)	30
Max. Operating Intake Resistance	КРа	<5
Exhaust Backpressure Limit	КРа	<10
Fuel Temperature (Fuel Inlet Pump)	°C	38±2
OVERALL DIMENSIONS		
Length*	mm	3834
Width	mm	1913
Height	mm	2367
Dry Weight *From front end of radiator to near end of air filter	kg	13056
FAN		
Diameter	mm	1900
		1,26:1
Drive Ratio		
		10
Drive Ratio		





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DIESEL ENGINE MAIN TECHNICAL PARAMETERS

COOLING SYSTEM			
Radiator Type	50ºC	Tropical	
Total Coolant Capacity	L	325	
Max. Perm. Coolant Outlet Temperature	°C	105	
Max. Perm. Flow Resist. (Cool. System And Piping)	bar	0,5	
Max. Temperature of Coolant Warning	°C	95	
Max. Temperature of Coolant Shutdown	°C	98	
Thermostat Operation Temperature - Initial Open	°C	75	
Thermostat Operation Temperature - Full Open	°C	85	
Delivery of Coolant Pump	m ³/ h	20,83	
Min. Pressure Before Coolant Pump	bar	0,5	
Radiator Face Area	m²	6,44	
Rows	Row	9	
Matrix Density	Per / Inch	12	
Material		Aluminum	
Width of Matrix	mm	2260	
Height of Matrix	mm	2850	
Pressure Cap Setting	kPa	50	
Estimated Cooling Air Flow Reserve	kPa	0,125	
Engine Pre Heater-Tube (with Circulation Pump)	W	2x7500	
LUBRICATION SYSTEM			
Total System	L	430	
Minimum Oil Level	L	370	
Nominal Motor Operating Temperature	°C	40	
Lubricating Oil Pressure (Rated Speed)	bar	7	
Relief Valve Opens	kPa	200	
Oil / Fuel Consumption Ratio	%	≤0,25	
Normal Oil Temperature	₽C	110	
ELECTRICAL SYSTEM			
Voltage	V	24	
Starter	kW	2X11	
Alternator Output Ampers	А	60	
Alternator Output Voltage	V	28	
Batteries Capacity	Ah	4X200	



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JCB ENERGY DIESEL ENGINE POWER RATINGS

ENGINE MODEL	Y3400JCI		ENGINE FAMILY	JC47	ENGINE SERIES	s yii	
		TVDICAL CENER	ATOR OUTPUT (NET)	ENGINE POWER	3		
Speed (Rpm)	Type of Operation			Gr	OSS	I	Net
		kVA	kWe	KWm	Нр	kWm	Нр
1500	Stand By(Maximum)	2.750,0	2.200,0	2.390,0	3.208,0	2.292,0	3.076,5
	Prime	2.498,0	1.999,0	2.180,0	2.926,2	2.082,0	2.794,6
1000	Stand By(Maximum)	2.750,0	2.200,0	2.390,0	3.208,0	2.292,0	3.076,5
1800	Prime	2.498,0	1.999,0	2.180,0	2.926,2	2.082,0	2.794,6

DIESEL ENGINE MATCHING PARAMETERS - 50 HZ

50 HZ @ 1500 R/MIN		STAND BY	PRIME
Gross Engine Power	kW	2390,0	2180,0
Net Engine Power	kW	2292,0	2082,0
Fan Power Consumption (Belt Pulley Driven)	kW	93,0	93,0
Other Power Loss	kW	5,0	5,0
Mean Effective Pressure	MPa	1,81	1,65
Intake Air Flow	m ³ / min	206,00	194,00
Exhaust Temperature Limit	₅C	570	550
Exhaust Flow	m ³/ min	457,00	426,00
Boost Pressure Ratio		3,30	3,50
Mean Piston Speed	m / s	10,5	10,5
Cooling Fan Air Flow	m ³/ min	3500,0	3500,0
Typical Generator Output Power	kVA	2750	2498
HEAT REJECTION		STAND BY	PRIME
Energy in Fuel (Heat of Combustion)	kW	5830,0	5273,0
Gross Heat to Power	kW	2390,0	2180,0
Energy to Coolant and Lubricating Oil	kW	800,0	720,0
Heat Dissipation Capacity *	kW	950,0	860,0
Energy to Exhaust	kW	1500,0	1338,0
Heat to Radiation	kW	190,0	175,0
*Intelie Internetial custom			

*Intake Intercooled system





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DIESEL ENGINE MATCHING PARAMETERS - 60 HZ

60 HZ @ 1800 R/MIN		STAND BY	PRIME
Gross Engine Power	kW	2390,0	2180,0
Net Engine Power	kW	2292,0	2082,0
Fan Power Consumption (Belt Pulley Driven)	kW	93,0	93,0
Other Power Loss	kW	5,0	5,0
Mean Effective Pressure	MPa	1,81	1,65
Intake Air Flow	m ³ / min	206,00	194,00
Exhaust Temperature Limit	ōC	570	550
Exhaust Flow	m ³ / min	457,00	426,00
Boost Pressure Ratio		3,30	3,50
Mean Piston Speed	m / s	10,5	10,5
Cooling Fan Air Flow	m ³ / min	3500,0	3500,0
Typical Generator Output Power	kVA	2750	2498
HEAT REJECTION		STAND BY	PRIME
Energy in Fuel (Heat of Combustion)	kW	5830,0	5273,0
Gross Heat to Power	kW	2390,0	2180,0
Energy to Coolant and Lubricating Oil	kW	800,0	720,0
Heat Dissipation Capacity *	kW	950,0	860,0
Energy to Exhaust	kW	1500,0	1338,0
Heat to Radiation	kW	190,0	175,0
*Intake Intercooled system			

JCB ALTERNATOR TECHNICAL PARAMETERS AND SPECIFICATIONS



ALTERNATOR TECHNI	CAL PARAMETERS				
Insulation Class		Н	Field Control System		Self-Excited
Winding Pitch		2/3 - (N° 6)	A.V.R. Model	Standard	MX321+PMG
Wires		6	Voltage Regulation	%	± 0.5
Protection		IP 23	Sustained Short-Circuit Current	10 sec	300% (3 IN)
Altitude	m	1000	Total Harmonic (*) TGH / THC	%	< 4
Overspeed	rpm	2250	Wave Form: NEMA = TIF - (*)		< 50
Air Flow	m³/sec.	2,69	Wave Form: I.E.C. = THF - (*)	%	< 1.5
Bearing Drive	N/A	-	Bearing Non-Drive	Bearing	6319-2RZ
Rotor Winding	100%	Copper	Stator Winding	100%	Copper



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ALTERNATOR SPECIFICATIONS

50 HZ / 231-400V COSQ 0,8 / 1500 RPM	50 HZ /	231-400V	COSQ 0,8	/ 1500 RPM
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STANDARD USING AL	TERNATOR			OPTIONAL U	SING ALTERN	IATOR			
BRAND/MODEL		JCB 450L		LEROY-	OMER	LSA 52.3L12	STAMFOR	D \$7110)-J4
DUTY				Continuous				Stand By	
AMBIENT	C°			40°C				27°C	
CLASS / TEMP. RISE	C°			H/ 125° K				Н/ 163° К	
SERIES STAR	V	380/220	400/231	415/240	1 Phase	380/220	400/231	415/240	1 Phase
PARALLEL STAR	V	190/110	200/115	208/120	220	190/110	200/115	208/120	220
SERIES DELTA	V	220	230	240	230	220	230	240	230
OUTPUT POWER	kVA	2500,0	2500,0	2550,0	-	2750,0	2750,0	2805,0	-
OUTPUT POWER	kW	2000,0	2000,0	2040,0	-	2200,0	2200,0	2244,0	-

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

STANDARD USING ALTERNATOR				OPTIONAL USING ALTERNATOR					
BRAND/MODEL	JUENERGY	JCB 450M		LEROY	SOMER	LSA 52.3S6	STAMFO	RD S7L1	D-G4
DUTY				Continuous			5	Stand By	
AMBIENT	C°			40°C				27°C	
CLASS / TEMP. RISE	C°			Н / 125° К			F	I / 163° К	
SERIES STAR	V	416/240	440/254	480/277	1 Phase	416/240	440/254	480/277	1 Phase
PARALLEL STAR	V	208/120	220/127	240/138	-	208/120	220/127	240/138	-
SERIES DELTA	V	240	254	277	240	240	254	277	240
OUTPUT POWER	kVA	2500,0	2500,0	2550,0	-	2750,0	2750,0	2805,0	-
OUTPUT POWER	kW	2000,0	2000,0	2040,0	-	2200,0	2200,0	2244,0	-





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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
- o Battery Charger
- Emergency Stop Button

- Terminal Blocks
- Load Output Terminal
- System Protection MSBs
- Circuit Breaker-Optional
- o LCD Screen
- o 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



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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

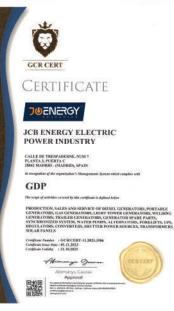


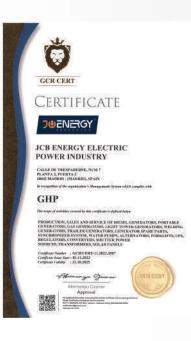
- Special, Registered JCB Energy Design and Colour
- A1 Quality DKP / HRU / Galvanized Steel
- Sensitive Twist on Automatic Press Brake
- Delicate Cut on Automatic Punch and Laser Bench
- Sensitive Welding on Robotic Welding Bench
- Chemical Cleaning Nano Technology Before Painting
- Robotic Painting with Electrostatic Powder Paint
- Drying and stabilizing on 200 ºC Ovens
- 1500 Hour Salt Test
- Glass wool Isolation, A1 Class Material -50/+500 ℃
- Special Covering Over Glass Wool
- Best Sound Level (in Dba)
- Temperature Tests
- Rustproof Accessories

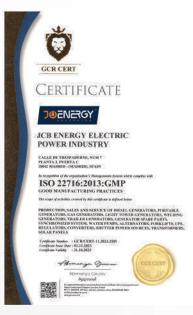
- Cable Exit Connectors and Glands
- Emergency Stop Button
- Fuel Level Gauge
- Fuel Drain Cap
- Fuel Inlet and Return Records
- Impermeability Test for Fuel Tank
- Vacuumed Rubber Mounted
- High Quality weatherstrips
- High Quality Shock Absorbers
- Fuel Filling Cap (with ventilation)
- Lifting and Carrying Equipment
- Internal Exhaust Mufflers (Silencers)
- External Exhaust Mufflers (Silencers)
- Radiator water Filling Cap
- o Daily Fuel Tank, External Fuel Tank

SERTİFİKATLARIMIZ











CERTIFICATE HEALTHY & SAFE WORKPLACE CERTIFICATE

JOENERGY

JCB ENERGY ELECTRIC POWER INDUSTRY

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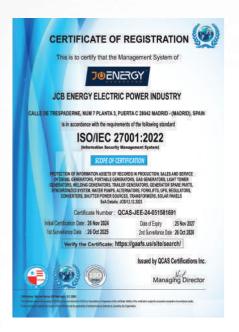
FACTORIES - PRODUCTION LOCATIONS: ELECTRICAL AND ELECTRONICS INDUSTRY

Compliant Number : (CCR/CERT-11.2023.3650 Compliant June Bail: 07.11.2023 Compliant June Bail: 96.11.2023

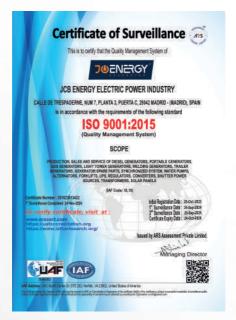


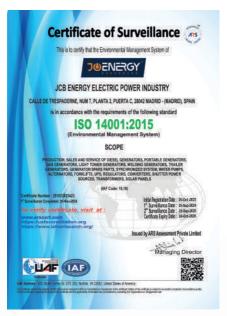


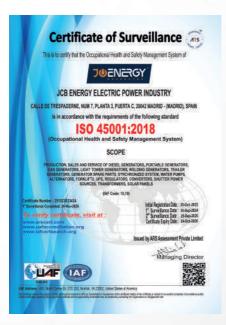
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DNV

MANAGEMENT SYSTEM CERTIFICATE

Certificate no: Initial certification date: D012084 14 August 2007

The is to cardy that the management system of HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant 40 (highes). Drops, indexe, 2200, Republic of Korea and the sites as mentioned in the appendix accompanying this cartificate has been toyaid to conform to the Environmental Management System standard. Iso 14001;2015

Valid: 14 October 2023 - 13 October 2026

The certificate is walls for the following scope: Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in Marine Industry, General Industry and Automotive Industry, and Earth Moving Equipment[Excavator, Wheel Loader, Dezer], Testing of Earth Moving Equipment[Excavator and Wheel Loader].





DNV

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Lanuari de meterre metorerres de Madera SALIDA IF de Registra 1415/80.645 Focies 2997.2223 12/82/09

RENE SANCHEZ ROMAN, MANAGER CH'THE DERIMETATION OF LIGAL ADVISORY SERVICES AND THE DATAMASE OF THE OFFICIAL OMAXBER OF COMMERCE, MOUERRE AND SERVICES OF MARINE, WITH INDUSTRIED OFFICE AT PLAZA DE LA INDERDIDICA 1, MARINE, DAVIN

CERTIFY. That, according to the background data on moord at this Chambar and others produced by the Company

CB-BERGY RECEISE FOMBLINGOTINE SL, a Company with Tax ID. Namine H1997554, and to registress office a strengt impactements in 2000 Masking is registred on MMp 2004, and the heading of the 3D Service comparise, of the Economic Activities Tax Tarihi function 540 spectrum the future gradient of the Service comparison.

· Menufacture of electrical material for use and equipment

In whites whereast, for the appropriate purpose, i have issued and signed this Certificate, to which Latts the stamp of this Chamilee, in Madrial on 28 July 2004.





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BENE SANCHEZ ROMAN, DIRECTORA DEL DERVICTAMENTO DE ASESORIA IMPRICA Y CINSO DE LA CIMARIA OFICIAL DE COMERCIO, INDUSTINA Y SURVICIS DE MARIRO, CON OCIACIONO SOCIAL EN LA TILAZA DE LA INDEPENDENCIA M. L'ANDRO-ENTANA CERTIFICA Qua de los antecedentes que obrin en ente Cuipenación y de coso entididos por la recordad, muntar

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Longia, productima de la compañía XII MINICAT HECTRIC COMPRENDENTI NULLESTRY SL, con domicilio en cale la compañía XII MINICAT HECTRIC COMPRENDENTI NULLESTRY SL, con domicilio en cale Traspademe númera 7, 20042. Másica y provida de Námera de Nemfreción mais discussa das de las en el graperspriejemis. Ala de la Scolón II emprenensi de las Tantas de Inguestos sobre Actividose Económicas, qui finala para ejecto ha activada l'Arbinizante en antenida décimida de Minicentor y Replementar.









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www.jcbenergy.com



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