# JCB ENERGY ELECTRIC POWER INDUSTRY

JOENERGY

\* \* \* \* \* \* Palstal

MADRID / SPAIN





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





#### **GENERATOR GENERAL INFORMATION**

GENERATOR	FREQUENCY	VOLTAGE	POWER FACTOR	SPEED	DIESEL ENGINE		ALTERNATOR			TYPE OF	GENERA		IPUT	
Model	Hz	V	Cos Q	Rpm	Brand	Model	Series	Brand	Model	Series	Operation	kVA	kW	А
							CI BII	JCBENERG	JCB	355LX 355L	Standby	935,0	748,0	1.351,2
JCN 935	50	231/400	0.8	1500		CN B1156JCI					Prime	850,0	680,0	1.228,3
											Continuous	595,0	476,0	859,8
					JCN			9			Standby	1.055,0	844,0	1.524,6
JCN 1055	60	277/480	0.8	1800				ũ,			Prime	959,1	767,3	1.386,0
											Continuous	671,4	537,1	970,2
• Dies	<ul> <li>Diesel Engines with Advanced Technology and Quality</li> </ul>						• Tropica	al 50 °C R	adiator, F	irst Class	Product Supp	ort		

• Fuel Filter with Water and Particle Separator

• Low Fuel Consumption, Low Oil Consumption

Wide Range of Affordable Spare Parts

High Quality and Reliable Technology

Global Technical Service and Maintenance Support

• Half Century Experience in Generator Manufacturing

- 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

#### **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.

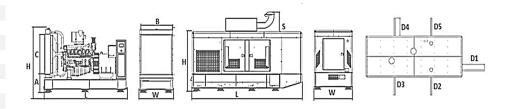
#### **GENERATOR DIMENSIONS AND TECHNICAL DRAWINGS**





VALUES		OPEN TYPE GENERATOR	CANOPY TYPE GENERATOR
WIDTH mm		1400	1942
LENGTH	mm	4000	5166
HEIGHT	mm	2188	2920
WEIGHT (NET)	Kg	4358	5640
FUEL TANK CAPACITY	L	1193	530

SYMBOL	OPEN	CANOPY
L	4000	5166
W	1400	1942
н	2188	2282
S		638
Α	560	
В	1302	
С	1446	
D1		1057
D2		961
D3		961
D4		961
D5		961



## **FUEL CONSUMPTION**

PERCENT OF PRIME POWER	1500 rpm	1800 rpm
	l/hr	l/hr
110 %	184,30	208,21
100 %	169,79	191,21
75 %	127,99	144,14
50 %	86,19	97,07





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## **DIESEL ENGINE MAIN TECHNICAL PARAMETERS**

GENERAL		
Number of Cylinders		12
Configuration		V-Type
Aspiration		Turbocharged & Intercooled
Combustion System		Direct Injection
Compression Ratio		15.5:1
Bore	mm	128
Stroke		125
	mm	
Displacement	L	23,922
Governing Type		Electronic
Governing Class		G3
Rotation		Counterclockwise
Firing Order		1-12-5-8-3-10-6-7-2-11-4-9
Emission		Tier II
Moments of Rotation Inertia		
Engine	Kg - m²	4,54
Flywheel	Kg - m²	2,1
Performance Rating		
Speed Droop	%	≤0,5
Steady State Speed Band	%	≤0,5
FILTERS		
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)	1
Flex Coupling Disc	Inch (")	14
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		5012
Length*	mm	2075
Width	mm	1456
Height		-
	mm	1558
Dry Weight		1558 1820
Dry Weight *From front end of radiator to near end of air filter	mm	
Dry Weight *From front end of radiator to near end of air filter FAN	mm kg	1820
Dry Weight *From front end of radiator to near end of air filter	mm	1820 950
Dry Weight *From front end of radiator to near end of air filter FAN Diameter	mm kg	1820
Dry Weight *From front end of radiator to near end of air filter FAN Diameter Drive Ratio	mm kg	1820 950 1,15:1



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#### **DIESEL ENGINE MAIN TECHNICAL PARAMETERS**

COOLING SYSTEM			
Radiator Type	50ºC	Tropical	
Total Coolant Capacity	L	96	
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	68	
Thermostat Operation Temperature - Full Open	°C	71	
Delivery of Coolant Pump	m ³/ h	10,50	
Min. Pressure Before Coolant Pump	bar	0,5	
Radiator Face Area	m²	1,88	
Rows	Row	5	
Matrix Density	Per / Inch	18	
Material		Aluminum	
Width of Matrix	mm	1302	
Height of Matrix	mm	1446	
Pressure Cap Setting	kPa	70	
Estimated Cooling Air Flow Reserve	kPa	0,15	
Engine Pre Heater-Tube (with Circulation Pump)	W	3000	
LUBRICATION SYSTEM			
Total System	L	57	
Minimum Oil Level	L	55	
Nominal Motor Operating Temperature	°C	40	
Lubricating Oil Pressure (Rated Speed)	bar	5	
Relief Valve Opens	kPa	200	
Oil / Fuel Consumption Ratio	%	≤0,5	
Normal Oil Temperature	₽C	110	
ELECTRICAL SYSTEM			
Voltage	V	24	
Starter	kW	9	
Alternator Output Ampers	A	45	
Alternator Output Voltage	V	28	
Batteries Capacity	Ah	2X135	



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## JCB ENERGY DIESEL ENGINE POWER RATINGS

ENGINE MODEL	B1156JCI		ENGINE FAMILY	JC35	ENGINE SERIES	BII	
Speed (Rpm)			TYPICAL GENERATOR OUTPUT (NET)		R		
	Type of Operation				ross	Net	
		kVA	kWe	KWm	Нр	kWm	Нр
1500	Stand By(Maximum)	935,0	748,0	817,0	1.096,6	787,0	1.056,4
	Prime	850,0	680,0	745,0	1.000,0	716,0	961,1
1800	Stand By(Maximum)	1.057,0	846,0	923,0	1.238,9	890,0	1.194,6
	Prime	958,0	766,0	839,0	1.126,2	807,0	1.083,2

## **DIESEL ENGINE MATCHING PARAMETERS - 50 HZ**

50 HZ @ 1500 R/MIN		STAND BY	PRIME
Gross Engine Power	kW	817,0	745,0
Net Engine Power	kW	787,0	716,0
Fan Power Consumption (Belt Pulley Driven)	kW	28,0	28,0
Other Power Loss	kW	2,0	1,5
Mean Effective Pressure	MPa	2,73	2,49
Intake Air Flow	m ³ / min	63,00	60,00
Exhaust Temperature Limit	°C	600	600
Exhaust Flow	m ³/ min	154,35	147,00
Boost Pressure Ratio		3,40	3,20
Mean Piston Speed	m / s	7,8	7,8
Cooling Fan Air Flow	m ³/ min	870,0	870,0
Typical Generator Output Power	kVA	935	850
HEAT REJECTION		STAND BY	PRIME
Energy in Fuel (Heat of Combustion)	kW	2043,0	1863,0
Gross Heat to Power	kW	817,0	745,0
Energy to Coolant and Lubricating Oil	kW	347,0	317,0
Heat Dissipation Capacity *	kW	143,0	130,0
Energy to Exhaust	kW	592,0	540,0
Heat to Radiation	kW	61,0	56,0
*Intaka Intercooled system			

\*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	923,0	839,0
Net Engine Power	kW	887,1	803,7
Fan Power Consumption (Belt Pulley Driven)	kW	33,6	33,6
Other Power Loss	kW	2,3	1,7
Mean Effective Pressure	MPa	2,57	2,34
Intake Air Flow	m ³ / min	71,18	67,60
Exhaust Temperature Limit	ōC	650	650
Exhaust Flow	m ³ / min	174,42	165,60
Boost Pressure Ratio		3,80	3,60
Mean Piston Speed	m / s	9,3	9,3
Cooling Fan Air Flow	m <sup>3</sup> / min	983,0	983,0
Typical Generator Output Power	kVA	1057	958
HEAT REJECTION		STAND BY	PRIME
Energy in Fuel (Heat of Combustion)	kW	2211,0	1978,0
Gross Heat to Power	kW	923,0	807,0
Energy to Coolant and Lubricating Oil	kW	392,0	357,0
Heat Dissipation Capacity *	kW	162,0	147,0
Energy to Exhaust	kW	669,0	608,0
Heat to Radiation	kW	64,0	59,0
*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	MX341+PMG
Wires		12	Voltage Regulation	%	± 1
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.	1,035	Wave Form: I.E.C. = THF - (*)	%	< 2
Bearing Drive	N/A	-	Bearing Non-Drive	Bearing	6314-2RZ
Rotor Winding	100%	Copper	Stator Winding	100%	Copper





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## **ALTERNATOR SPECIFICATIONS**

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

STANDARD USING ALTERNATOR				OPTIONAL USING ALTERNATOR					
BRAND/MODEL		JCB 355LX		LEROY-SC	OMER	TAL049C	STAMFORD	LV6D	
DUTY				Continuous				Stand By	
AMBIENT	C°			40°C				27°C	
CLASS / TEMP. RISE	C°			Н/ 125° К				H/ 163° K	
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	850,0	850,0	882,0	-	935,0	935,0	970,0	-
OUTPUT POWER	kW	680,0	680,0	705,6	-	748,0	748,0	776,0	-

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

STANDARD USING ALTERNATOR				OPTIONAL USING ALTERNATOR					
BRAND/MODEL		JCB 355L					STAMFOR	р нсес	5
DUTY				Continuous			Stand By		
AMBIENT	C°		40°C				27°C		
CLASS / TEMP. RISE	C°		Н / 125° К			Н / 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	865,0	911,0	959,0	-	951,0	1002,0	1055,0	-
OUTPUT POWER	kW	692,0	728,8	767,2	-	760,8	801,6	844,0	-



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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
- o Control Module
- Battery Charger
- Emergency Stop Button

- Terminal Blocks
- b Load Output Terminal
- System Protection MSBs
- Circuit Breaker-Optional
- o 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.	<b>Environmental Conditions</b>	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	<ul> <li>Current / Voltage</li> <li>Asymmetry</li> </ul>	- 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

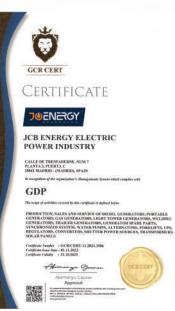


- Special, Registered JCB Energy Design and Colour
- A1 Quality DKP / HRU / Galvanized Steel
- Sensitive Twist on Automatic Press Brake
- Delicate Cut on Automatic Punch and Laser Bench
- Sensitive Welding on Robotic Welding Bench
- Chemical Cleaning Nano Technology Before Painting
- Robotic Painting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

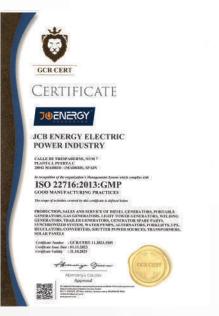
- Cable Exit Connectors and Glands
- Emergency Stop Button
- Fuel Level Gauge
- Fuel Drain Cap
- Fuel Inlet and Return Records
- Impermeability Test for Fuel Tank
- Vacuumed Rubber Mounted
- High Quality weatherstrips
- High Quality Shock Absorbers
- Fuel Filling Cap (with ventilation)
- Lifting and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

# OUR CERTIFICATES











CERTIFICATE HEALTHY & SAFE WORKPLACE CERTIFICATE

JUENERGY JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE, DE TRENPADERNE, NUM 7 PLANTA 2, PURITA C 20942 MADRID - (MADRID), NPAIN ETREMON CONTROL TO DRAME & ManBY, and Tafe Worksham

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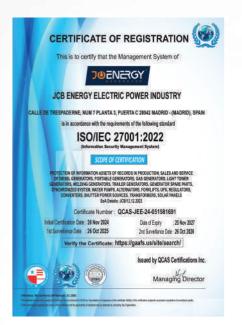
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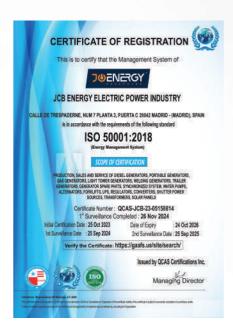
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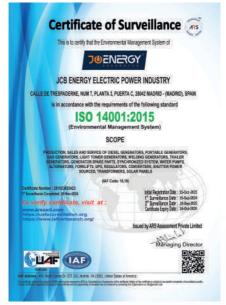


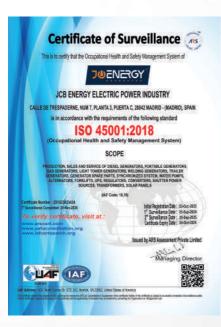
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#### DNV

#### 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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RENE SANCHEZ ROMAN, MANAGER CH'THE DEMARTMENT O' LIGAL ADMSONY SERVICES AND THE DATAINGE OF THE OFFICIAL OMAXBER OF COMMERCE, MOUERRE AND SERVICES OF MARIND, WITH INDUSTRIED OFFICE AT PLAZA DE LA INDERDIDICA 1, MARIND, DAVIN

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

CB-ID-BERGY RECEISE FOOMER INCOMENTS II, a Company with Tax ID. Namine IN 1975594, and Is registreed office a strengt impactements in 20000 Masking is registreed on MMAy 2004. and the the basing of the 3D Sentan companies, of the Economic Activities Tax Tarihi function Set Us performing in futureing schaft;

· 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.





Libratus de Manare Maista Maria Nº de Register 155 / 85 660 Fecha: 3607/355 1357/35

BENE SANCHEZ ROMAN, DIRECTORA DEL DEIWOTMENTO DE ASESORIA IMPORTA Y CINSO DE LA CIMARIA OFICIAL DE COMERCIO, INDUSTINA Y SURVICIS DE MARIRO, CON OCIACIONI SOCIAL EN LA TILAZA DE LA INDEPENDENCIA Y IL IMPORTO-ENTRATA CERTIFICA Que de los antecedentes que obrin en ente Cuipenación y de coso entididos por la recordad, manta

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