

JCB ENERGY ELECTRIC POWER INDUSTRY

♀ MADRID / SPAIN





























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





GENERATOR GENERAL INFORMATION

GENERATOR	FREQUENCY	VOLTAGE	POWER FACTOR	SPEED	DIESEL E	NGINE		ALTERN	ATOR		TYPE OF	GENERAT	OR OUTPL	JT
Model	Hz	V	Cos Q	Rpm	Brand	Model	Series	Brand	Model	Series	Operation	kVA	kW	А
							20161 1/11	J ⊌ ENE36)		450LM	Standby	3.000,0	2.400,0	4.335,3
JCN 3000	50	231/400	0.8	1500		V2700101					Prime	2.727,3	2.181,8	3.941,1
					ICNI						Continuous	1.909,1	1.527,3	2.758,8
					JCN	Y3709JCI	YII				Standby	3.000,0	2.400,0	4.335,3
JCN 3000	60	277/480	0.8	1800			ดี		450MX	Prime	2.727,3	2.181,8	3.941,1	
								~	· 		Continuous	1.909,1	1.527,3	2.758,8

- 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.





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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.

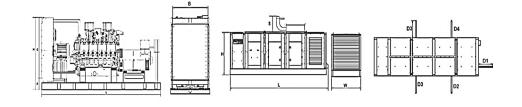
GENERATOR DIMENSIONS AND TECHNICAL DRAWINGS





VALUES		OPEN TYPE GENERATOR	CANOPY TYPE GENERATOR		
WIDTH	mm	2400	2430		
LENGTH	mm	7500	12000		
HEIGHT	mm	3100	3300		
WEIGHT (NET)	Kg	19000	26000		
FUEL TANK CAPACITY	L	5000	5000		

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
TENGENT OF THIME TOTAL	l/hr	I/hr
110 %	598,60	598,60
100 %	548,41	548,41
75 %	413,37	413,37
50 %	289,36	289,36





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DIESEL ENGINE MAIN TECHNICAL PARAMETERS

GENERAL		
Number of Cylinders		16
Configuration		V-Type
Aspiration		Turbocharged & Intercooled
Combustion System		Direct Injection
		13.5:1
Compression Ratio	ma ma	
Bore	mm	200
Stroke	mm	210
Displacement	L	105,56
Governing Type		ECU
Governing Class		G3
Rotation		Counterclockwise
Firing Order		L1-R1-L6-R6-L2-R2-L5-R5-L8-R8-L3-R3-L7- R7-L4-R4
Emission		Tier II
Moments of Rotation Inertia		
Engine	Kg - m²	44,42
Flywheel	Kg - m²	29,36
Performance Rating		
Speed Droop	%	≤1
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)	00
Flex Coupling Disc	Inch (")	21
TEST CONDITIONS	- ()	
Ambient Temperature	%	25
Ambient Temperature Atmospheric Pressure	% KPa	25 100
Atmospheric Pressure	КРа	100
Atmospheric Pressure Relative Humidity	KPa Rh (%)	100 30
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance	KPa Rh (%) KPa	100 30 <5
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit	KPa Rh (%) KPa KPa	100 30 <5 <10
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump)	KPa Rh (%) KPa	100 30 <5
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump) OVERALL DIMENSIONS	KPa Rh (%) KPa KPa	100 30 <5 <10
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump)	KPa Rh (%) KPa KPa °C	100 30 <5 <10 38±2
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump) OVERALL DIMENSIONS Length* Width Height	KPa Rh (%) KPa KPa °C mm mm mm	100 30 <5 <10 38±2 3834 1913 2367
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump) OVERALL DIMENSIONS Length* Width Height Dry Weight	KPa Rh (%) KPa KPa °C mm mm	100 30 <5 <10 38±2 3834 1913
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump) OVERALL DIMENSIONS Length* Width Height Dry Weight *From front end of radiator to near end of air filter	KPa Rh (%) KPa KPa °C mm mm mm	100 30 <5 <10 38±2 3834 1913 2367
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump) OVERALL DIMENSIONS Length* Width Height Dry Weight *From front end of radiator to near end of air filter FAN	KPa Rh (%) KPa KPa °C mm mm mm kg	100 30 <5 <10 38±2 3834 1913 2367 13116
Atmospheric Pressure Relative Humidity Max. Operating Intake Resistance Exhaust Backpressure Limit Fuel Temperature (Fuel Inlet Pump) OVERALL DIMENSIONS Length* Width Height Dry Weight *From front end of radiator to near end of air filter FAN Diameter	KPa Rh (%) KPa KPa °C mm mm mm	100 30 <5 <10 38±2 3834 1913 2367 13116
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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	ōС	105
Max. Perm. Flow Resist. (Cool. System And Piping)	bar	0,5
Max. Temperature of Coolant Warning	ōС	95
Max. Temperature of Coolant Shutdown	ōС	98
Thermostat Operation Temperature - Initial Open	ōC	75
Thermostat Operation Temperature - Full Open	^o C	85
Delivery of Coolant Pump	m³/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	ōC	40
Lubricating Oil Pressure (Rated Speed)	bar	7
Relief Valve Opens	kPa	200
Oil / Fuel Consumption Ratio	%	≤0,25
Normal Oil Temperature	ºC	110
ELECTRICAL SYSTEM		
Voltage	V	24
Starter	kW	2X11
Alternator Output Ampers	Α	60
Alternator Output Voltage	V	28
Batteries Capacity	Ah	4X200





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JCB ENERGY DIESEL ENGINE POWER RATINGS

ENGINE MODEL	Y3709JCI		ENGINE FAMILY JC57		ENGINE SERIE	S YII	
		TYPICAL GENERATOR OUTPUT (NET)		ENGINE POWER	₹		
Speed (Rpm)	Type of Operation			Gr	OSS		Net
		kVA	kWe	KWm	Нр	kWm	Нр
1500	Stand By(Maximum)	3.002,0	2.402,0	2.600,0	3.489,9	2.502,0	3.358,4
	Prime	2.726,0	2.181,0	2.370,0	3.181,2	2.272,0	3.049,7
	Stand By(Maximum)	3.002,0	2.402,0	2.600,0	3.489,9	2.502,0	3.358,4
1800	Prime	2.726,0	2.181,0	2.370,0	3.181,2	2.272,0	3.049,7

DIESEL ENGINE MATCHING PARAMETERS - 50 HZ

50 HZ @ 1500 R/MIN		STAND BY	PRIME
Gross Engine Power	kW	2600,0	2370,0
Net Engine Power	kW	2502,0	2272,0
Fan Power Consumption (Belt Pulley Driven)	kW	93,0	93,0
Other Power Loss	kW	5,0	5,0
Mean Effective Pressure	MPa	1,97	1,79
Intake Air Flow	m³/min	218,00	206,00
Exhaust Temperature Limit	ōC	550	520
Exhaust Flow	m ³/ min	502,00	463,00
Boost Pressure Ratio		3,30	3,50
Mean Piston Speed	m / s	10,5	10,5
Cooling Fan Air Flow	m ³/ min	4000,0	4000,0
Typical Generator Output Power	kVA	3002	2726
HEAT REJECTION		STAND BY	PRIME
Energy in Fuel (Heat of Combustion)	kW	6406,0	5813,0
Gross Heat to Power	kW	2600,0	2370,0
Energy to Coolant and Lubricating Oil	kW	900,0	810,0
Heat Dissipation Capacity *	kW	1.040,0	950,0
Energy to Exhaust	kW	1671,0	1502,0
Heat to Radiation	kW	195,0	181,0

^{*}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	2600,0	2370,0	
Net Engine Power	kW	2502,0	2272,0	
Fan Power Consumption (Belt Pulley Driven)	kW	93,0	93,0	
Other Power Loss	kW	5,0	5,0	
Mean Effective Pressure	MPa	1,97	1,79	
Intake Air Flow	m³/min	218,00	206,00	
Exhaust Temperature Limit	ōC	550	520	
Exhaust Flow	m³/min	502,00	463,00	
Boost Pressure Ratio		3,30	3,50	
Mean Piston Speed	m / s	10,5	10,5	
Cooling Fan Air Flow	m ³ / min	4000,0	4000,0	
Typical Generator Output Power	kVA	3002	2726	
HEAT REJECTION		STAND BY	PRIME	
Energy in Fuel (Heat of Combustion)	kW	6406,0	5813,0	
Gross Heat to Power	kW	2600,0	2370,0	
Energy to Coolant and Lubricating Oil	kW	900,0	810,0	
Heat Dissipation Capacity *	kW	1.040,0	950,0	
Energy to Exhaust	kW	1671,0	1502,0	
Heat to Radiation	kW	195,0	181,0	

^{*}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										
STANDARD USING ALTERNATOR				OPTIONAL USING ALTERNATOR						
BRAND/MODEL	JOENERGY.	JCB 450LM		LEROY-S	OMER"	LSA 53.2M7	STAMFORD	S7L1	D-K4	
DUTY				Continuous				Stand By		
AMBIENT	C°			40°C				27°C		
CLASS / TEMP. RISE	C°			H/ 125° K				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	2727,0	2727,0	2782,0	-	3000,0	3000,0	3060,0	-	
OUTPUT POWER	kW	2181,6	2181,6	2225,6	-	2400,0	2400,0	2448,0	-	

60 HZ / 277-480V COSQ (0,8 / 1800 RPM								
STANDARD USING ALTER	NATOR			OPTIONAL U	JSING ALTERI	NATOR			
BRAND/MODEL	JOENERGY.	JCB 450MX		LEROY	SOMER	LSA 52.3L9	STAMFO	ORD	S7L1D-H4
DUTY				Continuous				Stand B	у
AMBIENT	C°		40°C 27°C						
CLASS / TEMP. RISE	C°			H / 125° K				H / 163°	К
SERIES STAR	V	416/240	440/254	480/277	1 Phase	416/240	440/254	480/2	. 77 1 Phase
PARALLEL STAR	V	208/120	220/127	240/138	-	208/120	220/127	240/1	- 38
SERIES DELTA	V	240	254	277	240	240	254	277	240
OUTPUT POWER	kVA	2727,0	2727,0	2782,0	-	3000,0	3000,0	3060	,0 -
OUTPUT POWER	kW	2181,6	2181,6	2225,6	-	2400,0	2400,0	2448	,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
- Battery Charger
- Emergency Stop Button
- Terminal Blocks
- Load Output Terminal
- System Protection MSBs
- Circuit Breaker-Optional
- o LCD Screen
- Control Relays
- Backlit, 128x64 Pixels

CONTROL MODULE TECHNICAL PARAMETERS

Brand	JOENERGY.	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 Nom 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

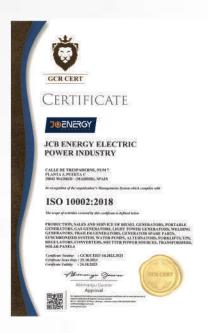


- Special, Registered JCB Energy Design and Colour
- A1 Quality DKP / HRU / Galvanized Steel
- Sensitive Twist on Automatic Press Brake
- Delicate Cut on Automatic Punch and Laser Bench
- Sensitive Welding on Robotic Welding Bench
- Chemical Cleaning Nano Technology Before Painting
- Robotic Painting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

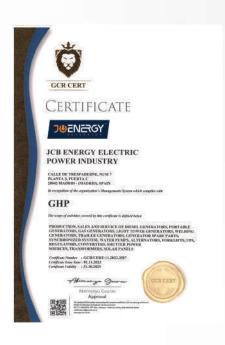
- Cable Exit Connectors and Glands
- Emergency Stop Button
- Fuel Level Gauge
- Fuel Drain Cap
- Fuel Inlet and Return Records
- Impermeability Test for Fuel Tank
- Vacuumed Rubber Mounted
- High Quality weatherstrips
- High Quality Shock Absorbers
- Fuel Filling Cap (with ventilation)
- Lifting and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

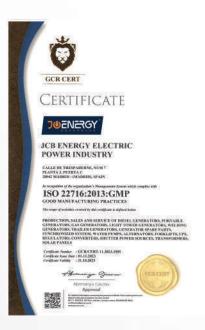


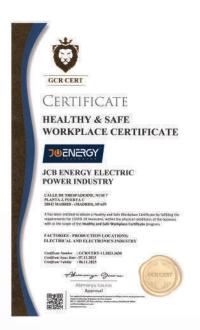
OUR CERTIFICATES

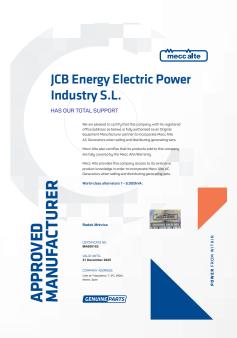




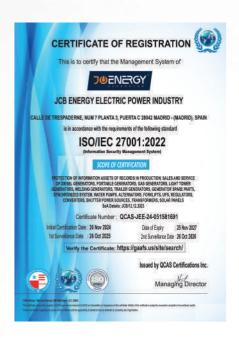






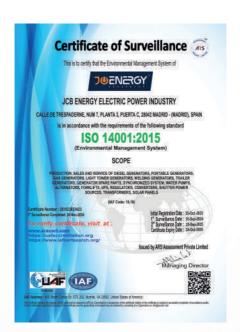


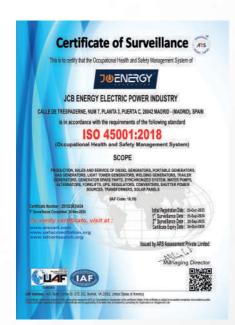














MANAGEMENT SYSTEM CERTIFICATE

Valid: 14 October 2023 – 13 October 2026

This is to certify that the management system of HD Hyundai Infracore Co., Ltd. Head Office &

Incheon Plant
489, Injung-ro, Dong-gu, Incheon, 22502, Republic of Korea
and the sites as mentioned in the appendix accompanying th

has been found to conform to the Environmental Management System standard: ISO 14001:2015

This certificate is valid for the following scope:
Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in
Marine industry, aneral Industry and Automotive Industry, and Earth Moving
Testing of Earth Moving Equipment(Excavator and Wheel Loader).

Place and date: Barendrecht, 99 October 2023

For the issuing office: DMY - Business Assurance Zwolesoweg 1, 2964 LB Barendracht, Hetherlands







MANAGEMENT SYSTEM CERTIFICATE

Initial certification class: 03 January 2006 Spissed on OHSAS 18001)

HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant

480 Inlung-ro, Dong-gu, Incheon, 22502, Republic of Korea

has been found to conform to the Occupational Health and Safety Management Syst ISO 45001:2018

Place and date: Barendrecht, 99 October 2023













IRBHE SANKHEZ ROMMA MANAGER DE THE DEFARTMENT OF LEGAL ADVISONY SERVICES AND THE DATAINSE OF THE OFFICIAL CHARMER OF COMMERCE, HIGHERRY AND SERVICES OF MADRID, WITH REGISTERED OFFICE AT PLAZA DE LA MODERNORIOCA F, MADRID, TAYAN

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

CB ENERGY ELECTRIC POWER INSUSTRY St., a Company with Tax LD. Nation B1975554, and its registress of those at street frequency may 2, 2000. Making is registered on 6 May 2004, under the heating of the 145 Section, companies, of the Economic Activities Tax Traffic Number 545 to preterm the National Activities of Company (Company).

Menufacture of electrical material for use and equipment.







REGISTRO GENERAL SALIDA

CÉASIO DE LA CÁMARA ORICIAL DE COMERCIO, INICIUSTRIA Y SERVICIOS DE MADRID, CON DOMICIUO SOCIAL EN LA PLAZA DE LA INDEPENDENCIA Nº 1, MADRID — ESPAÑA

CERTIFICA. Que de los antecedentes que obran en esta Corporación y da otros estábidos por la sociedad, musita:







