JCB ENERGY ELECTRIC POWER INDUSTRY

MADRID / SPAIN

JCBENERGY

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The stratspart







JCC 350

231 / 400 V – 50 Hz





GENERATOR GENERAL INFORMATION

GENERATOR	FREQUENCY	VOLTAGE	POWER FACTOR	SPEED	DIESEL E	NGINE		ALTERN	ATOR		TYPE OF	GENER OUTPL	ATOR JT	
Model	Hz	V	Cos Q	Rpm	Brand	Model	Series	Brand	Model	Series	Operation	kVA	kW	А
											Standby	350,0	280,0	505,8
JCC 350	50	231/400	0.8	1500	Cummins	6LTAA9.5G1	LTAA	ENER	JCB	270LXA	Prime	318,2	254,5	459,8
								Υ <mark>Ω</mark> Υ			Continuous	222,7	178,2	321,9

 Diesel Engines with Advanced Technology and Quality 	 Tropical 50 °C Radiator, First Class Product Support
 Alternators with Advanced Technology and Quality 	 Fuel Filter with Water and Particle Separator
 Low Exhaust Emission 	 Low Fuel Consumption, Low Oil Consumption
 Control Panel Suitable for Flexible Application 	 Global Technical Service and Maintenance Support
 Patented Compact Designed and Sound proof Canopy 	 Wide Range of Affordable Spare Parts
 Low Operating Cost, Suitable for Heavy-Duty 	 High Quality and Reliable Technology
 Durability, Low Noise Level 	 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.



JCC 350 231 / 400 V – 50 Hz



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	1179
LENGTH	mm	3095	3921
HEIGHT	mm	1782	2498
WEIGHT (NET)	Kg	2163	2600
FUEL TANK CAPACITY	L	475	673

SYMBOL	OPEN	CANOPY
L	3095	3921
W	1100	1179
н	1598	1955
S	184	543
Α	766	
В	810	
С	860	
D1		520
D2		850
D3		850
D4		850
D5		850





JCC 350 231 / 400 V - 50 Hz



DIESEL ENGINE MAIN TECHNICAL PARAMETERS

Number of Cylinders6ConfigurationVertical, in lineAsplrationVertical, in lineCombustion SystemIncombustion SystemCompression RatioVertical, in lineCompression RatioIncombustion SystemCompression RatioNonStrokemmStrokemmStrokeStrokeGoverning TypeLStrokeStrokeGoverning ClassCounterclockwiseStrokeNon-RegulatedStrokeNon-RegulatedStrokeNon-RegulatedFilterNon-RegulatedFilterNon-RegulatedStrokeNon-RegulatedStrokeStrokeStrokeStrokeStrokeStrokeStrokeLStrokeStrokeStrokeLStroke<	GENERAL		
Configuration Vertical, in line Aspiration Turb o Charged & Aftercooled Computation System Direct Injection Bore mm 16 Stroke mm 148 Stroke mm 148 Owerning Type L 9,5 Governing Type G3 G3 Rotation 15.3-5-2.4 G3 Rotation 15.3-5-2.4 Emission Filter Vorter Spearator G3 Filter Vorter Spearator G3 Filter Vorter Spearator G1 Filter Vorter Spearator G1 Filter Vorter Spearator G3 Oli Filter Vorter Spearator G3 UBRICATION SYSTEM 20,5 G1 UBRICATION SYSTEM 20,1 G3 Governing Type Vorter Spearator G3 Ori Filter 0,1 G3 Total System L 20,5 Normad OII Expessure (Rated Speed) Sa	Number of Cylinders		6
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Compression Ratio16,513Boremm148Strokemm148DisplacementL9,5Governing TypeElectronicGataGoverning Type-ElectronicGoverning Type-CounterclockwiseFiring Order-Non-RegulatedFiring Order-Non-RegulatedFiring Order-Non-RegulatedFiring Order-Purty Type, ReplaceableFiring Order-Vith Water SeparatorFiring Firing Tomperature-26,5Norman Oil LevelL22Norman Oil LevelL22Norman Oil Levelbar6,5Norman Oil Pressure (Rated Speed)bar6,5Norman Oil Temperature%0,1Norman Oil Temperature%0,1Norman Oil Temperature%0,1Norman Oil Temperature%0,2Norman Oil Tempe	Combustion System		Direct injection
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Air Filter Dry Type, Replaceable With Water Separator Oil Filter With Water Separator UUBRICATION SYSTEM Total System L L 26,5 Nominal Motor Operating Temperature °C 50 Lubricating Oil Pressure (Rated Speed) bar 6,5 Relief Valve Opens kPa 250-330 Oil / Luel Consumption Ratio % <0,1 Normal Oil Temperature °C 120 FUEL CONSUMPTION Standby - Load 110% L/h 75,53 Prime - Load 100% L/h 68,33 Prime - Load 100% L/h 85,52 COOLING SYSTEM Total Coolant Capacity L C 28,66 Max. Perm. Coolant United Temperature °C 95 Max. Perm. Coolant United Temperature °C 105 Max. Perm. Coolant United Temperature °C 95 Max. Perm. Flow Resist. (Cool. System And Piping) bar 0,55 Max. Temperature of Coolant Warning °C 95 Max. Temperature of Coolant Warning °C 93 Delivery of Coolant Marning °C 93 Delivery of Coolant Marning °C 93 Max. Temperature of Coolant Warning °C 93 Delivery of Coolant Pump m ³ /h 3,000 Min. Pressure Before Coolant Warning °C 93 Delivery of Coolant Pump m ³ /h 3,000 Min. Pressure Before Coolant Warning °C 93 Delivery of Coolant Pump m ³ /h 3,000 Min. Pressure Before Coolant Pump M ³ /h 3,	FILTERS		Non Regulated
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TubeTubeTubeStandby - Load 110%L/h75,53Prime - Load 100%L/h68,33Prime - Load 75%L/h50,99Prime - Load %50L/h35,52COOLING SYSTEMRadiator Type50°CTropicalTotal Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature°C105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning°C95Max. Temperature of Coolant Shutdown°C98Thermostat Operation Temperature - Initial Open°C82Thermostat Operation Temperature - Full Open°C93Delivery of Coolant Pumpm³ h3,00Min. Pressure Before Coolant Pumpbar0,22RowsRow3Matrialmm635Width of Matrixmm635Height of Matrixmm985Pressure Cap SettingKPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Normal Oil Temperature	9C	120
Standby - Load 110%L/h75,53Prime - Load 100%L/h68,33Prime - Load 75%L/h50,99Prime - Load %50L/h35,52COOLING \$SYSTEML/h35,52Radiator Type50°CTropicalTotal Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature°C105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning°C95Max. Temperature of Coolant Shutdown°C98Thermostat Operation Temperature - Initial Open°C93Delivery of Coolant Pumpm³/h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62Rows312Matrix DensityPer / Inch12Width of Matrixmm635Height of Matrixmm985Pressure Cap SettingKPa90Estimated Cooling Air Flow ReserveKPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	FUEL CONSUMPTION	-0	120
Prime - Load 100%L/h68,33Prime - Load 75%L/h50,99Prime - Load %50L/h35,52COOLING SYSTEMRadiator Type50°CTropicalTotal Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature°C105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning°C95Max. Temperature of Coolant Shutdown°C98Thermostat Operation Temperature - Initial Open°C93Delivery of Coolant Pumpm³/h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62Rows33Matrix DensityPer / Inch12MatrialMind SissenAluminumWidth of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Standby - Load 110%	L/h	75.53
Prime - Load 75%L/h50,99Prime - Load %50L/h35,52COULNG SYSTEMRadiator Type50°CTropicalTotal Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature°C105Max. Perm. Coolant Outlet Temperature°C95Max. Temperature of Coolant Warning°C95Max. Temperature of Coolant Warning°C98Thermostat Operation Temperature - Initial Open°C93Delivery of Coolant Pumpm³ / h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62Rows83Matrix DensityPer / Inch12Matrix DensityPer / Inch12Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Prime - Load 100%	L/h	68.33
Prime - Load %50L/h35,52COOLING SYSTEMRadiator Type50°CTropicalTotal Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature°C105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning°C95Max. Temperature of Coolant Shutdown°C98Thermostat Operation Temperature - Initial Open°C93Delivery of Coolant Pumpm³/h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62RowsRow3Matrix DensityPer / Inch12Materialmm6335Width of Matrixmm6335Height of Matrixmm90Estimated Cooling Air Flow ReservekPa0,125Fingine Pre Heater-Tube (with Circulation Pump)W3000	Prime - Load 75%	, L/h	50.99
COOLING SYSTEMRadiator Type50°CTropicalTotal Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature°C105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning°C95Max. Temperature of Coolant Shutdown°C98Thermostat Operation Temperature - Initial Open°C93Delivery of Coolant Pumpm³ / h3,00Min. Pressure Before Coolant Pumpm²0,62Radiator Face Aream²0,62Rows3Natrix DensityMatrix DensityPer / Inch12Materialmm635Height of Matrixmm985Pressure Cap SettingkPa0,125Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Prime - Load %50	L/h	35.52
Radiator Type50°CTropicalTotal Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature°C105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning°C95Max. Temperature of Coolant Shutdown°C98Thermostat Operation Temperature - Initial Open°C93Delivery of Coolant Pump°C93Delivery of Coolant Pumpm ³/ h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62RowsRow3Matrix DensityPer / Inch12Materialmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	COOLING SYSTEM	-, · ·	
Total Coolant CapacityL28,6Max. Perm. Coolant Outlet Temperature9C105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning9C95Max. Temperature of Coolant Shutdown9C98Thermostat Operation Temperature - Initial Open9C93Delivery of Coolant Pumpm³/h3,00Min. Pressure Before Coolant Pumpm³/h3,00Min. Pressure Before Coolant Pumpm²0,62RowsRow3Matrix DensityPer / Inch12Materialmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Radiator Type	50ºC	Tropical
Max. Perm. Coolant Outlet TemperaturePC105Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant WarningPC95Max. Temperature of Coolant ShutdownPC98Thermostat Operation Temperature - Initial OpenPC82Thermostat Operation Temperature - Full OpenPC93Delivery of Coolant Pumpm ³ / h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream ² 0,62RowsRow3Matrix DensityPer / Inch12Materialmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Total Coolant Capacity	L	28.6
Max. Perm. Flow Resist. (Cool. System And Piping)bar0,5Max. Temperature of Coolant Warning9C95Max. Temperature of Coolant Shutdown9C98Thermostat Operation Temperature - Initial Open9C82Thermostat Operation Temperature - Full Open9C93Delivery of Coolant Pumpm 3/ h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62Rows33Matrix DensityPer / Inch12MaterialMm635Width of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Max. Perm. Coolant Outlet Temperature	⁰C	105
Max. Temperature of Coolant WarningPC95Max. Temperature of Coolant ShutdownPC98Thermostat Operation Temperature - Initial OpenPC82Thermostat Operation Temperature - Full OpenPC93Delivery of Coolant Pumpm ³ / h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62Rows33Matrix DensityPer / Inch12Materialmm635Width of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Max. Perm. Flow Resist. (Cool. System And Piping)	bar	0,5
Max. Temperature of Coolant Shutdown°C98Thermostat Operation Temperature - Initial Open°C82Thermostat Operation Temperature - Full Open°C93Delivery of Coolant Pumpm³/ h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62Rows330Matrix DensityPer / Inch12Materialmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Max. Temperature of Coolant Warning	⁰C	95
Thermostat Operation Temperature - Initial OpenPC82Thermostat Operation Temperature - Full OpenPC93Delivery of Coolant Pumpm 3/ h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62RowsRow3Matrix DensityPer / Inch12Materialmm635Width of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Max. Temperature of Coolant Shutdown	₽C	98
Thermostat Operation Temperature - Full OpenPC93Delivery of Coolant Pumpm ³/ h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62RowsRow3Matrix DensityPer / Inch12MaterialMm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Thermostat Operation Temperature - Initial Open	°C	82
Delivery of Coolant Pumpm ³/ h3,00Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62Rows33Matrix DensityPer / Inch12MaterialMinimumAluminumWidth of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Thermostat Operation Temperature - Full Open	°C	93
Min. Pressure Before Coolant Pumpbar0,25Radiator Face Aream²0,62RowsRow3Matrix DensityPer / Inch12MaterialAluminumWidth of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Delivery of Coolant Pump	m ³ / h	3.00
Radiator Face Aream²0,62RowsRow3Matrix DensityPer / Inch12MaterialAluminumWidth of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Min. Pressure Before Coolant Pump	bar	0,25
RowsRow3Matrix DensityPer / Inch12MaterialAluminumWidth of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Radiator Face Area	m ²	0.62
Matrix DensityPer / Inch12MaterialAluminumWidth of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Rows	Row	3
MaterialAluminumWidth of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Matrix Density	Per / Inch	12
Width of Matrixmm635Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Material		Aluminum
Height of Matrixmm985Pressure Cap SettingkPa90Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Width of Matrix	mm	635
Pressure Cap Setting kPa 90 Estimated Cooling Air Flow Reserve kPa 0,125 Engine Pre Heater-Tube (with Circulation Pump) W 3000	Height of Matrix	mm	985
Estimated Cooling Air Flow ReservekPa0,125Engine Pre Heater-Tube (with Circulation Pump)W3000	Pressure Cap Setting	kPa	90
Engine Pre Heater-Tube (with Circulation Pump) W 3000	Estimated Cooling Air Flow Reserve	kPa	0,125
•	Engine Pre Heater-Tube (with Circulation Pump)	W	3000





DIESEL ENGINE MAIN TECHNICAL PARAMETERS

ELECTRICAL SYSTEM		
Voltage	V	24
Starter	kW	6,5
Alternator Output Ampere	A	70
Alternator Output Voltage	V	28
Batteries Capacity	Ah	2X135
FAN		
Diameter	mm	810
Drive Ratio		1.2:1
Number of Blades		9
Material		Plastic
Туре		Blowing

DIESEL ENGINE MATCHING PARAMETERS - 50 HZ

50 HZ @ 1500 R/MIN		STAND BY	PRIME
Gross Engine Power	kW	320,0	290,9
Net Engine Power	kW	300,0	272,7
Fan Power Consumption (Belt Pulley Driven)	kW	20,0	20,0
Other Power Loss	kW	-	-
Mean Effective Pressure	MPa	2818,00	2818,00
Intake Air Flow	m ³ / min	20,23	20,23
Exhaust Temperature Limit	°C	560	560
Exhaust Flow	m ³/ min	52,92	52,92
Boost Pressure Ratio		35,00	35,00
Mean Piston Speed	m / s	7,2	7,2
Cooling Fan Air Flow	m ³/ min	475,0	475,0
Typical Generator Output Power	kVA	349	317
Alternator Efficiency	%	93,0	93,0
HEAT REJECTION		STAND BY	PRIME
Energy in Fuel (Heat of Combustion)	kW	676,0	676,0
Gross Heat to Power	kW	310,0	310,0
Energy to Coolant and Lubricating Oil	kW	121,0	121,0
Energy to Exhaust	kW	210,0	210,0
Heat to Radiation	kW	35,00	35,00



JCC 350

231 / 400 V – 50 Hz



ALTERNATOR SPECIFICATIONS



ALTERNATOR TECHNIC	AL PARAMETERS				
Insulation Class		Н	Field Control System		Self-Excited
Winding Pitch		2/3 - (N° 6)	A.V.R. Model	Standard	AS440
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.	0.514	Wave Form: I.E.C. = THF - (*)	%	< 2
Bearing Drive	N/A	-	Bearing Non-Drive	Bearing	6310-2RZ
Rotor Winding	100%	Copper	Stator Winding	100%	Copper

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

STANDARD USING ALTE	RNATOR			OPTIONAL US	SING ALTERN	IATOR			
BRAND/MODEL	JCBENERGY	JCB 270LXA		LEROY-SO	omer [™]	TAL046G	STAMFORD	S4L1DD	
DUTY				Continuous			\$	itand By	
AMBIENT	C°			40°C				27°C	
CLASS / TEMP. RISE	C°			Н/ 125° К			ŀ	I/ 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	318,0	318,0	330,0	-	350,0	350,0	363,0	-
OUTPUT POWER	kW	254,4	254,4	264,0	-	280,0	280,0	290,4	-



JCC 350

231 / 400 V – 50 Hz



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)



- 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
- o Backlit, 128x64 Pixel

CONTROL MODULE TECHNICAL PARAMETERS

CONTROL PANEL SPECIFICATIONS

Brand	JCBENERGY	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



JCC 350 231 / 400 V – 50 Hz



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 ℃
- 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 R	egistration 👝	Certificate of Re	egistration 👝		
This is to certify that the Quality Ma	anagement System of	This is to certify that the Environmental	Vanagement System of		
JCBENER	RGY	JEBENER	GY		
JCB ENERGY ELECTRIC P	OWER INDUSTRY	JCB ENERGY ELECTRIC PO	WER INDUSTRY		
CALLE DE TRESPADERNE, NUM 7 PLANTA 3, PUER	TA C 28042 MADRID - (MADRID), SPAIN	CALLE DE TRESPADERNE, NUM 7 PLANTA 3, PUERTA	C 28042 MADRID - (MADRID), SPAIN		
is in accordance with the requirement	is of the following standard	is in accordance with the requirements	of the following standard		
ISO 9001:2015 (Quality Management System)		ISO 14001 (Environmental Manager	ISO 14001:2015 (Environmental Management System)		
SCOPE		SCOPE			
MANUFACTURING, SALES AND SERVICE OF GENER WATER PUMP, FORKLIFT, UPS, REGULATOR, CON	ATOR AND GENERATOR COMPLEMENTS, VERTERS, SHUTTER POWER SUPPLIES	MANUFACTURING, SALES AND SERVICE OF GENERA WATER PUMP, FORKLIFT, UPS, REGULATOR, CONV	TOR AND GENERATOR COMPLEMENTS, ERTERS, SHUTTER POWER SUPPLIES		
(IAF Code: 18,	.19)	(IAF Code: 18,1))		
ton Number: 2992291342 vorrify: corrificato, visit_at; waracent_com in unafacent distion.org	Initial Registration Citris : 35-000-0013 11 ⁴ Schwilliance Data : 35-56-5024 2 ⁴ Schwilliance Data : 35-56-5025 Centicuta Eppip Data : 36-001-0035	Centres Number: 201/20130301 To: verify.cortificato.visit.at: www.arsent.com https://udascreditation.org https://udascreditation.org	Initial Registration Onto: 20-04-0223 11 Surveillance Data: 25-04-2234 27 Surveillance Data: 25-04-2234 Cariforni Expiry Data: 24-04-2234		
and the second s	Issued by ARS Assessment Private Limited		Issued by ARS Assessment Private Limited		
	Minacion Director		Managing Director		







Certificate

JCBENERGY

JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE DE TRESPADERNE, NUM ? PLANTA 3, PUERTA C 28642 MADRID - (MADRID), SPAIN

In reception of the organization's Managements System which complex with

ISO 22716:2013:GMP GOOD MANUFACTURING PRACTICES The scope of methodise control by this conflictor is defined below

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

Confficute Number : GCR/CERT-11.2023.3585 Confficute Fund Date : 01.11.2023 Confficute Fallelly : 31.30.2024

Abimarya Garan Abimarya Garav Approval

Approval





GCR CERT

Certificate

HEALTHY & SAFE WORKPLACE CERTIFICATE

JCB ENERGY ELECTRIC POWER INDUSTRY

CALLE DE TRESPADERNE, NUN 7 PLANTA & PETRETA C 2006 MARDING - OADBRIDS, PAIN B has been entried to obtain a Healthy and Sele Workslase Conflicts by fulfiling the regimements for COVI-55 measures, within the physical conditions of the Dubries with in the regime of the Nealthy and Sele Workslase Ended on the Dubries

FACTORIES - PRODUCTION LOCATIONS: ELECTRICAL AND ELECTRONICS INDUSTRY

Certifican Number : GCR:CERT-11.2023.3650 Certifican Inac Date : 07.31.2023 Certifican Failuly : 06.31.2024



Alternancy you Guarantee Alternany Cautar Alternany Cautar Transmission and an and alternance an









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