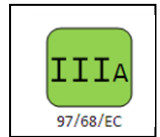




JCB DIESEL GENERATOR TECHNICAL SPECIFICATIONS



G276QX



G276X

ELECTRICAL			
FREQUENCY	VOLTAGE	PRIME	STANDBY
50Hz	400/230v	250kVA / 200kW	275kVA / 220kW
Rated Speed	1500RPM - 50Hz		
Circuit Breaker	4 pole		
Power Factor	0.8		

All ratings are 3Ph to standard reference conditions ISO8528: RIC AC Gen Sets.

ALTERNATOR	
Poles	4 pole
Winding Connections	Star
Insulation	Class H
Enclosure	IP23
Exciter System	Self-regulating brushless
Voltage Regulator	AVR (electronic)
Bearing	Single bearing sealed
Coupling	Flexible disc
Coating type	Polyester resin

Prime: This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchase power. There is no limitation on the annual hours of operation and 10% over load power can be supplied for 1 hour in 12.

ENGINE		
		50Hz
Output Rating	kW	247
Manufacturer and model		Scania DC9 71A (02-01)
Fuel		Diesel
Injection		Direct
Aspiration		Turbo Charged and aftercooled
Cylinders		5
Bore and Stroke	mm	130x140
Displacement	l	9.3
Cooling		Water
Engine Oil Specification		ACEA E3, E4, E5 or E7
Compression Ratio		16:1
Engine Oil Capacity	l	38
Coolant capacity	l	57
Governor		Electronic
Air Filter		Dry
Fuel Consumption		50Hz
100% Load Prime	l/h	55.45
75% Load Prime	l/h	42.57
50% Load Prime	l/h	28.78
Lube Oil Consumption 100% load	g/kwh	0.2

EXHAUST SYSTEM		
Maximum Temperature 100% Standby	°C	502
Exhaust Gas Flow	Kg/s	0.333
Heat evacuated through exhaust	Kcal/Kwh	666.4
Exhaust Flange Size (Internal Diameter)	mm	140

AIR SYSTEM		
Intake Air Flow 100% Standby	m ³ /h	950
Total Cooling Air Flow 100% Standby	m ³ /s	7.5
Alternator fan airflow	m ³ /s	0.58

STARTING SYSTEM		
Starter Motor	kW	5.5
Battery Capacity	Ah	50
Auxiliary Voltage	V	24

FUEL SYSTEM		
Diesel Specification		EN590
Fuel Tank Capacity - Open Skid	l	449
- Canopy	l	449
Extended run tank capacity - canopy	l	999
Canopy models have an integrated 110% bunded capacity with drain plug.		

WEIGHT AND DIMENSIONS - OPEN		
Length	mm	3000
Width	mm	1224
Height	mm	1856
Shipping Volume (Sea Ready)	m ³	6.82
Weight (Standard Build inclusive of oil and coolant)	Kg	2172



JCB G276X

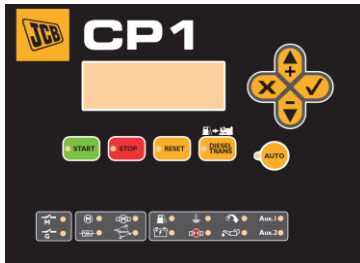
WEIGHT AND DIMENSIONS - CANOPY		
Length	mm	3800
Width	mm	1400
Height	mm	2290
Shipping Volume (Sea Ready)	m ³	12.18
Weight (Standard Build inclusive of oil & coolant)	Kg	3434
		50Hz
Sound pressure (LpA) - 7m	dB	72



JCB G276QX

CONTROL PANEL – JCB CPI (Standard)

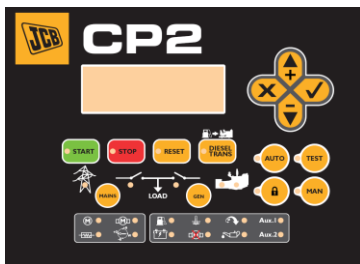
The JCB CPI control system is digital and has the capability to control, monitor and protect the generator. The display allows the user to easily monitor the status of the generator through an LCD display and LED outputs. It enables control of the generator operations through soft touch push button functionality and multi lingual capability



CONTROL PANEL – JCB CP2 (Option)

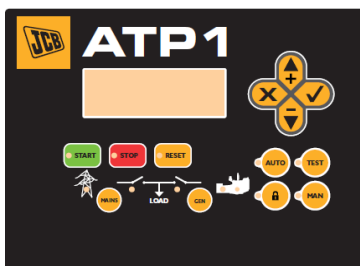
The JCB CP2 control system is digital and has the capability to control, monitor and protect the generator the same as the JCB CPI panel but additionally incorporates the functionality of the control module of the JCB ATP1.

The JCB CP2 Panel constantly monitors the mains and has to be hardwired into both mains and generator contactors. The display allows the user to easily monitor the status of the generator as well as controlling generator operation



CONTROL PANEL – JCB ATP1 (Option)

The JCB ATP1 control module is integrated into an Automatic Transfer Switch, which provides automatic mains failure capability. The JCB ATP1 can communicate with a generator through either 2 wire start volt free contactors or CANBUS through CPI to ATP1 (not compatible with CP2). The JCB ATP1 when connected via CANBUS to the JCB CPI will give control functions and display generator information.



CONTROL PANEL FEATURES	CPI	CP2	ATPI
GENERATOR			
Phase to Phase Voltage	•	•	•
Phase to Neutral	•	•	•
Phase Amperage	•	•	•
Frequency	•	•	•
kVA	•	•	•
Kw	•	•	•
kVAr	•	•	•
Power Factor	•	•	•
MAINS			
Phase to Phase Voltage	x	•	•
Phase to Neutral	x	•	•
Phase Amperage	x	•	•
Frequency	x	•	•
kVA	x	x	•
kW	x	x	•
kVAr	x	x	•
Power Factor	x	x	•
ENGINE			
Coolant Temperature	•	•	x
Oil Pressure	•	•	x
Fuel Level Percentage	•	•	x
Battery Voltage	•	•	x
Engine RPM	•	•	x
Battery Charge Alternator Voltage	•	•	x
ENGINE ALARMS			
High Coolant Temperature	•	•	x
Low Oil Pressure	•	•	x
Low Coolant Level	•	•	x
Unexpected Shutdown	•	•	x
Failure to Stop	•	•	x
Battery Voltage Failure	•	•	x
Battery Charge Alternator Failure	•	•	x
Over Speed	•	•	x
Under Speed	•	•	x
Failure to Start	•	•	x
Low Fuel level	•	•	x
Emergency Stop	•	•	•
ALTERNATOR ALARMS			
High Frequency	•	•	•
Low Frequency	•	•	•
High Voltage	•	•	•
Low Voltage	•	•	•
Over Amperage	•	•	x
Short Circuit	•	•	x
Symmetry Between Phases	•	•	•
Incorrect Phasing	•	•	•
Inverse Power	•	•	x
Over Load	•	•	x
Generator Drop	x	x	•

• Standard x Not Available

CONTROL PANEL FEATURES		CPI	CP2	ATPI
MEASUREMENT				
Total Hours Run		•	•	•
Kilowatt Meter		•	•	•
Number of Starts		•	•	•
Number of Start Failures		•	•	•
Service Indicator		•	•	•
CONNECTIVITY				
Remote Screen (CAN)		△	△	△
Local Monitoring (CANBUS)		△	△	△
Local Monitoring (CANLAN)		△	△	△
Remote Monitoring (CANModem – Fixed)		△	△	△
Remote Monitoring (CANModem – GSM)		△	△	△
FEATURES				
Events History		•	•	•
External Start capability		•	•	•
Programmable Start Restriction		•	•	•
Mains Failure Start		•	•	•
Generator Contact Activation		•	x	x
Mains and Generators Contact Activation		x	•	•
Fuel Transfer Control		•	•	x
Engine Temperature		•	•	x
Manual Override		•	•	x
Programmable Alarms		•	•	x
Generator Start in Test Mode		•	•	x
Programmable Outputs		•	•	x
Multi Lingual		•	•	•
Programmable Timer		•	•	x
Synchronisation		•	•	x

• Standard x Not Available △ Optional

REFERENCE STANDARDS

JCB Generators are CE certified and conform to the following Directives (subject to a country requiring such standard):

- EN 12100, EN13857, EN60204
- 2006/42/CE Machinery safety
- 2006/95/EC Low voltage
- 2004/108/CE Electromagnetic compatibility
- 2000/14/EC Sound Power Level (amended by 2005/88/EC)
- 97/68/EC Emissions(amended by 2002/88/EC & 2004/26/EC)
- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046
- Power according to ISO 8528 and ISO 3046
- Information based on standard specification equipment unless otherwise stated.

GENERATOR FEATURES		STANDARD	OPTIONAL
ENGINE			
Engine		•	x
Cooling Pack		•	x
Tropical specification Radiator		x	△
Heavy Duty Air Filter		•	x
Electronic Governor		•	x
High coolant Temperature Sender		•	x
Low Oil Pressure Sender		•	x
High Oil Temperature Sender		•	x
Radiator Guards		•	x
Hot Component Guards		•	x
Manual Oil Drain Pump		•	x
Racor Fuel Filter		x	△
Fuel Heater		x	△
Electric Fuel Transfer Pump		x	△
Coolant Level Senders		•	x
Battery Charger		•	•
Water Jacket Heater		•	x
Industrial Silencer – Open Set		•	x
Residential Silencer – Open Set		x	△
Residential Silencer – Canopy		•	x
ELECTRICS			
Alternator		•	x
Circuit Breaker		•	x
Busbar		•	x
Heavy Duty Gel Batteries		•	x
Battery Isolator		•	x
Preparation for Earth Spike		•	x
Anti-condensation Heater		x	△
Optional Voltages		x	△
JCB CP1 Digital Controller		•	x
JCB CP2 Digital Controller		x	△
JCB ATP1 Automatic Transfer Switch		x	△
External Emergency Stop Button		•	x

• Standard x Not Available △ Optional