

JCB DIESEL GENERATOR TECHNICAL SPECIFICATIONS





G1200X

GI200QX

Powered by MTU

ELECTRICAL		PRIME	STAND BY
Output Rating	kVA	1135	1230
	kW	908	984
Frequency	Hz	50	
Rated Speed	RPM	1500	
Standard Voltage	٧	400/230	
Circuit Breaker	amp	1600	
Power Factor		0.8	

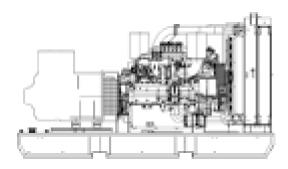
ALTERNATOR		
Poles	No	4
Winding Connections		Star
Frame Mounting		SAE 0-18"
Insulation	Class	Н
Enclosure		IP23
Exciter System		Self-regulating brushless
Voltage Regulator		AVR (electronic)
Stead Voltage		+/- I.5%
Bearing		Single bearing sealed
Coupling		Flexible disc

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.

Standby: This rating is for the supply of continuous electrical power, at variable load, in the event of a Utility power failure. No overload is permitted.

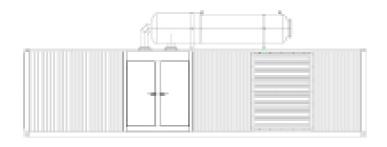
ENGINE		PRIME	STAND BY
Output Rating	kW	1000	1100
Manufacturer		MTU	
Engine Model		18V2000G65	
Fuel		Diesel	
Injection			Direct
Aspiration		Turbo Chai	ged with Inter-cooler
Cylinders			18V
Bore and Stroke	mm		130 x 150
Displacement	I		35.82
Cooling			Water
Engine Oil		S	SAE 10W40
Compression Ratio			16:01
Fuel Consumption			
100% Load Prime	l/h		234.88
75% Load Prime	l/h		176.16
100% Load Standby	l/h		260.72
75% Load Standby	l/h		195.54
Engine Oil Capacity			130
Coolant capacity	I	160	
Governor		Electronic	
Air Filter		ŀ	Heavy Duty
EXHAUST SYSTEM			
Maximum Temperature 100% Standby	°C		555
Exhaust Gas Flow 100% Standby	Kg/h		4,989.6
Maximum Allowed Back Pressure	kPa (mbar)	8.5	
Exhaust Flange Size (Internal Diameter)	mm	211 x 2	
Extraost Flange Size (Internal Blameter)	Diameter) IIIII 211 X 2		211 / 2
AIR SYSTEM			
Intake Air Flow 100% Standby	m³/h		4,140
Cooling Air Flow 100% Standby	m³/h		92,880
STARTING SYSTEM			
Starter Motor	kW	9.5	
	CV		12.95
Battery Capacity	Ah	260	
Auxiliary Voltage	VCC	24	
Starter Current – Maximum Power	Amp	1600	
Firing Speed	Amp		800
FUEL SYSTEM			
Diesel Specification			
Maximum Fuel Pressure at Connection	Maximum Fuel Pressure at Connection bar +0.5		+0.5
Minimum Fuel Pressure at Connection	bar	-0.3	

Open Skid Fuel Tank Capacity	I	980
Container Fuel Tank Capacity	I	980
WEIGHT AND DIMENSIONS - OPEN		
Length	mm	5050
Width	mm	1910
Height	mm	2652
Shipping Volume (Sea Ready)	m³	25.58
Wet Weight (Standard Build)	Kg	8,474
Dry Weight (Standard Build)	Kg	8,200



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WEIGHT AND DIMENSIONS - ISO CONTAINER			
Length	mm	12,192	
Width	mm	2,438	
Height	mm	2,896	
Height with Silencer fitted	mm	4,000	
Shipping Volume (Sea Ready)	m ³	75.3	
Wet Weight (Standard Build)	Kg	15,574	
Dry Weight (Standard Build)	Kg	15,300	
Sound Level @ IM	db(A)	80	



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CONTROL PANEL - JCB CPI

The JCB CP1 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

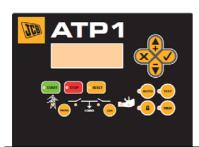
The JCB CP2 control system is digital and has the capability to control, monitor and protect the generator the same as the JCB CP1 panel but additionally incorporates the functionality of the control module of the JCB ATP1.

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 ATPI

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



CONTROL PANEL FEATURES	СРІ	CP2	ATPI
GENERATOR			
Phase to Phase Voltage	•	•	•
Phase to Neutral	•	•	•
Phase Amperage	•	•	•
Frequency	•	•	•
kVA	•	•	•
Kw	•	•	•
kVAr	•	•	•
Power Factor	•	•	•
MAINS			•
Phase to Phase Voltage	х	•	•
Phase to Neutral	х	•	•
Phase Amperage	Х	•	•
Frequency	Х	•	•
kVA	X	x	•
Kw	X	x	•
kVAr	x	x	•
Power Factor	X	x	•
ENGINE			<u>l</u>
Coolant Temperature	•	•	х
Oil Pressure	•	•	X
Fuel Level Percentage	•	•	x
Battery Voltage	•	•	x
Engine RPM	•	•	х
Battery Charge Alternator Voltage	•	•	X
ENGINE ALARMS			
High Water temperature	•	•	x
High Coolant Temperature	•	•	х
Low Oil Pressure	•	•	х
Low Coolant Level	•	•	х
Unexpected Shutdown	•	•	х
Failure to Stop	•	•	x
Battery Voltage Failure	•	•	х
Battery Charge Alternator Failure	•	•	х
Over Speed	•	•	х
Under Speed	•	•	х
Failure to Start	•	•	х
Low Fuel level	•	•	х
Emergency Stop	•	•	•
ALTERNATOR ALARMS			
High Frequency	•	•	•
Low Frequency	•	•	•
High Voltage	•	•	•
Low Voltage	•	•	•
LOW YORASE		-	

Over Amperage	•	•	х
Short Circuit	•	•	х
Symmetry Between Phases	•	•	•
Incorrect Phasing	•	•	•
Inverse Power	•	•	x
Over Load	•	•	х
Generator Drop	х	х	•

• Standard x Not Available

CONTROL DANIEL FEATURES	CDI	CD2	
CONTROL PANEL FEATURES	CPI	CP2	ATPI
MEASUREMENT		1	1
Total Hours Run	•	•	•
Kilowatt Meter	•	•	•
Number of Starts	•	•	•
Number of Start Failures	•	•	•
Service Indicator	•	•	•
CONNECTIVITY			
Remote Screen (CAN)	Δ	Δ	Δ
Local Monitoring (CANBUS)	Δ	Δ	Δ
Local Monitoring (CANLAN)	Δ	Δ	Δ
Remote Monitoring (CANModem – Fixed)	Δ	Δ	Δ
Remote Monitoring (CANModem – GSM)	Δ	Δ	Δ
FEATURES			
Events History	•	•	•
External Start capability	•	•	•
Programmable Start Restriction	•	•	•
Mains Failure Start	•	•	•
Generator Contact Activation	•	х	х
Mains and Generators Contact Activation	х	•	•
Fuel Transfer Control	•	•	х
Engine Temperature	•	•	х
Manual Override	•	•	х
Programmable Alarms	•	•	х
Generator Start in Test Mode	•	•	х
Programmable Outputs	•	•	х
Multi Lingual	•	•	•
Programmable Timer	•	•	х
Synchronisation	•	•	х

• Standard x Not Available \triangle Optional

REFERENCE STANDARDS

 $\ensuremath{\mathsf{JCB}}$ Generators are CE certified and conform to the following Directives:

- EN ISO 13857:2008
- 2006/95/EC
- 89/336/EEC
- 2000/14/EC (amended by 2005/88/EC)
- 97/68/EC (amended by 2002/88/EC & 2004/26/EC)
- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO8528

GENERATOR FEATURES	STANDARD	OPTIONAL
ENGINE		
Engine	•	X
Cooling Pack	•	х
Tropicalised Radiator	Х	•
Heavy Duty Air Filter	•	Х
MTU ADEC Governor	•	х
High Water Temperature Sender	•	х
Low Oil Pressure Sender	•	х
Oil Temperature Sender	•	х
Radiator Guards	•	Х
Hot Component Guards	•	х
Manual Oil Drain Pump	•	х
Electric Oil Drain Pump	Х	•
Fuel Heater	Х	•
Electric Fuel Transfer Pump	х	•
Low Coolant Level Senders	•	Х
Battery Charger	Х	•
Water Jacket Heater	Х	•
Exhaust Gas Compensator	•	X
Industrial Silencer – Open Set	•	X
Residential Silencer – Open Set	Х	•
Residential Silencer – Container	•	Х
ELECTRICS		
Alternator	•	Х
Circuit Breaker	•	х
Busbar	•	х
Heavy Duty Batteries	•	Х
Battery Isolator	•	Х
Preparation for Earth Spike	•	X
Anti-condensation Heater	Х	•
Optional Voltages	Х	•
Class F Insulation	Х	•
JCB CP1 Digital Controller	•	х
JCB CP2 Digital Controller	Х	•
JCB ATP1 Automatic Transfer Switch	х	•
External Emergency Stop Button	•	х
FABRICATIONS		
Heavy Duty Base Frame	•	x
Integral Fuel Tank	•	x
ISO Container 20' (6,096mm)	Х	•
Double Skin Fuel Tank	х	•
Rockwool Sound Attenuation	х	•

Window for External Control Panel View	х	•
Anti-condensation Heater	х	•
Optional Voltages	х	•
Class F Insulation	х	•
JCB CP1 Digital Controller	•	Х
JCB CP2 Digital Controller	х	•
JCB ATPI Automatic Transfer Switch	x	•