



G13QX

Electrical

Frequency Hz	Phases	Voltage Volts	Prime		Standby	
			kVA	kW	kVA	kW
50	3	400/230	12.5	10.0	13.4	10.7
50	1	230	9.5	9.5	10.3	10.3
60	3	380/220	15.0	12.0	16.3	13.1
60	3	220/127	14.7	11.8	16.2	13.0
60	1	240	11.5	11.5	12.6	12.6

Frequency Hz	Phases	Voltage Volts	MCB Rating Amps	ATP Rating Amps	Rated Speed RPM
50	3	400/230	20	30	1500
50	1	230	32	40	1500
60	3	380/220	25	30	1800
60	3	220/127	40	40	1800
60	1	240	50	63	1800

Power Factor

3 Phase	0.8
1 Phase	1

All ratings are to standard reference conditions ISO8528

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.

"Stage IIIa" models are only emissions compliant at 50Hz Prime Power in accordance with 97-68EC

Load Acceptance

GI Standard

1st Step size (As % of Rated Load) 50Hz	100
1st Step size (As % of Rated Load) 60Hz	100

Alternator		HMI30B2	
Poles		4 pole	
Winding Connections		Double Delta	
Insulation		Class H	
Enclosure		IP23	
Exciter System		Self-excited, brushless	
Voltage Regulator		A.V.R. (electronic)	
Steady State Voltage Regulation		+/- 1.0% (GI)	
Bearing		Single Bearing	
Coupling		Flexible Disc	
Cooling		Direct drive centrifugal blower fan	
Coating		Winding Protection Standard	

Engine			
1500 RPM			
Output Rating (PRP)	kW		13.2
Output Rating (Standby)	kW		14.5
1800 RPM			
Output Rating (PRP)	kW		16.2
Output Rating (Standby)	kW		17.8
Manufacturer and Model		Yanmar 3TNV88BGGEH	
Fuel		Diesel	
Injection		Indirect	
Aspiration		Natural	
Cylinders		3	
Bore and Stroke	mm	88x90	
Displacement	l	1.642	
Cooling		Coolant	
Engine Oil Specification		SEA 3 class 10W30 / API grade CD,CF	
Compression Ratio		19.1:1	
Engine Oil Capacity		6.7	
Coolant Capacity		4.8	
Governor		Mechanical	
Air Filter		Dry	
Engine Oil Consumption	100% Load		0.27 g/kWh

Fuel Consumption			
1500 RPM			
100% Load Prime	l/h		3.59
75% Load Prime	l/h		2.74
50% Load Prime	l/h		2
100% Load Standby	l/h		3.9
1800 RPM			
100% Load Prime	l/h		4.64
75% Load Prime	l/h		3.48
50% Load Prime	l/h		2.49
100% Load Standby	l/h		4.79

Exhaust System			
Maximum Temperature 100% Standby	°C	50Hz	450
Exhaust Gas Flow 100% Standby	m ³ /min		3.07
Maximum Allowed Back Pressure	kPa		12.7
Maximum Temperature 100% Standby	°C	60Hz	500
Exhaust Gas Flow 100% Standby	m ³ /min		4.03
Maximum Allowed Back Pressure	kPa		1300
Exhaust Flange Size	mm	50	

Air System			
Intake Air Flow 100% Standby	m ³ /h	50Hz	66.5
Total Cooling Air Flow 100% Standby	m ³ /s		0.7
Alternator Fan Airflow	m ³ /s		0.09
Intake Air Flow 100% Standby	m ³ /h	60Hz	79.8
Total Cooling Air Flow 100% Standby	m ³ /s		0.753
Alternator Fan Airflow	m ³ /s		0.108

Starting System			
Starter Motor	kW	1.1	
Battery Capacity	Ah	66	
Number of Batteries		1	
Auxiliary Voltage	V	12	

Fuel System			
Diesel Specification		EN590	
Standard Fuel Tank Capacity	l	23	

Weight and dimensions			
Length	mm	1.475	
Width	mm	1.104	
Height	mm	750	
Shipping Volume (sea ready)	m ³	1.22	
Weight (standard build excluding fuel)	Kg	537	

Sound Pressure			
LpA (7m)	50Hz	dB(A)	59
LpA (7m)	60hz	dB(A)	60

Control Panel - JCB KSI (Standard)

The JCB KSI is a compact, robust analogue display unit with LED warnings, controlled through a manual key start pad.



Control Panel Features	KSI
High Coolant Temperature	S
Low Oil Pressure	S
Unexpected Shutdown	A
Battery Charge Alternator Failure	A
Over speed	S
Failure to start	A
Emergency Stop	A
Alternator High Frequency	S

S - Shutdown A - Alarm

Canopy/Skid	
Lockable Maintenance Access Doors	●
Control Panel Viewing Window	●
Fork Pockets	●
Single Lift Point	●
Rental Sledging Base	△
Bunding	●
Open Frame	x
Bund Level Indicator	△
50mm Rock Wool Sound Insulation	●
Yellow Paint	●
Red Paint	△
White Paint	△

Standard ● : Not Available x : Optional △

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Mechanical Features

Cooling Pack	●
Air Filter	●
Mechanical Governor	●
Electronic Governor	x
High coolant Temperature Sender	●
Low Oil Pressure Sender	●
Advanced coolant Temperature Sender	x
Advanced Oil Pressure Sender	x
Oil Temperature Sender	x
Water Level Sender	x
Radiator Guards	●
Hot Component Guards	●
Manual Oil Drain Pump (fitted in canopy)	●
Water Jacket heater	x
Battery Isolator	Δ
Battery Type	Dry
Battery Size (Ah)	66Ah
Number of Batteries	1
Optional Battery	Wet
Battery Charger	x
Manual Fuel Fill	x
Electric Fuel Fill	x
Racor Fuel Filter (no alarm)	x
Racor Fuel Filter (with alarm)	x
Pre-filter with Separator	x
External Spark Arrestor	Δ
Fuel Level Sender	●
Fuel Heater	Δ
External Fuel Fill (belly tank)	Δ
3 Way Fuel Valve and Coupling Nest	x
Residential Silencer	●
Exhaust Gas Compensator	x
Industrial Silencer	x

Fuel Tank Options

	Material	Capacity (l)
Standard Tank	Plastic	23
Tank Option I	Steel	100

Standard ● : Not Available x : Optional Δ

Electrical Features

AVR DSR	●
AVR DER	x
Winding Protection Standard	●
Winding Protection Standard +	Δ
Winding Protection Grey	Δ
Winding Protection Total	Δ
Winding Protection Total+	Δ
MAUX	●
PMG	Δ
Anti-Condensation Heater	Δ
Miniature Circuit Breaker (integrated busbar)	●
Moulded Case Circuit Breaker (with integrated busbar)	x
Earth Leakage Protection (RCD)	●
Synchronisation	x
Socket Box (inclusive of heavy duty busbar & micro switch)	x
Preparation for Earth Spike	●
Optional Voltages	Δ
Remote Screen	x
Panel Door Micro Switch	x
Copper Busbar/Tails	x
Emergency Stop Button	●
External Emergency Stop Button	●

JCB Communication and Control

KSI	●
CPI (inclusive of program timer)	x
CP2 (inclusive of program timer)	x
ATP	x
CAN/USB	x
CAN/LAN	x
CAN RS-232	x
Remote Modem	x

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)
- Power according to ISO 8528 and ISO 3046
- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046

Information based on standard specification equipment unless otherwise stated.

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SPEC Issued 16/04/2013

