



DIESEL GENERATOR

FUEL OPTIMISED

ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	kVA	Prime		Standby		Rated Speed (RPM)
				kVA	kW	kVA	kW	
50	3	400/230V	13.3	10.64	14.3	11.44	1500	
60	3	380/220V	16.1	12.9	17.5	14.0	1800	
60	3	220/127V	15.0	12.0	16.3	13.0	1800	
60	3	480/277V	16.1	12.9	17.5	14.0	1800	

POWER FACTOR

3 Phase	0.8
1 Phase	1

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528

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.

FUEL CONSUMPTION

Load Condition	Unit	Frequency	Value
100% Load Prime	L/h	50Hz	3.18
75% Load Prime	L/h		2.50
50% Load Prime	L/h		1.80
100% Load Standby	L/h		3.51
100% Load Prime	L/h	60Hz	4.02
75% Load Prime	L/h		3.06
50% Load Prime	L/h		2.25
100% Load Standby	L/h		4.60

EXHAUST SYSTEM

Parameter	Unit	Frequency	Value
Maximum Temperature 100% Standby	°C	50Hz	390.00
Exhaust Gas Flow 100% Standby	m ³ /min		2.08
Maximum Allowed Back Pressure	mbar		9.80
Maximum Temperature 100% Standby	°C	60Hz	500.00
Exhaust Gas Flow 100% Standby	m ³ /min		4.03
Maximum Allowed Back Pressure	mbar		12.70
Exhaust Flange Size	mm		50.00

AIR SYSTEM

Parameter	Unit	Frequency	Value
Intake Air Flow 100% Standby	m ³ /h	50Hz	66.50
Total Cooling Air Flow 100% Standby	m ³ /s		0.70
Alternator Fan Airflow	m ³ /s		0.09
Intake Air Flow 100% Standby	m ³ /h	60Hz	79.80
Total Cooling Air Flow 100% Standby	m ³ /s		0.753
Alternator Fan Airflow	m ³ /s		0.108

ENGINE

1500 RPM		
Output Rating (PRP)	kW	13.20
Output Rating (Standby)	kW	14.52
1800 RPM		
Output Rating (PRP)	kW	16.20
Output Rating (Standby)	kW	17.82
Manufacturer and Model		Yanmar 3TNV88BGGEH
Fuel		Diesel
Injection		Indirect
Aspiration		Natural
Cylinders		3
Bore and Stroke	mm	88x90
Displacement	L	1.642
Cooling		Water
Engine Oil Specification		SEA 3 class 10W30 / API grade CD,CF
Compression Ratio		19.1:1
Engine Oil Capacity	L	6.70
Coolant Capacity	L	4.80
Governor		Mechanical
Air Filter		Dry
Engine Oil Consumption	100% Load	0.27 g/kWh

FUEL SYSTEM

Diesel Specification		EN590
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ALTERNATOR

Poles	4
Winding Connections	Star (3Ph) / Parallel (1Ph)
Insulation	Class H
Enclosure	IP23
Exciter System	Self-excited, brushless
Voltage Regulator	A.V.R. (electronic)
Steady State Voltage Regulation	+/- 1.0%
Bearing	Single Bearing
Coupling	Flexible Disc
Cooling	Direct drive centrifugal blower fan
Coating	Winding Protection Standard

STARTING SYSTEM

Starter Motor	kW	1.10
Battery Capacity	Ah	66
Number of Batteries		1
Auxiliary Voltage	V	12

BATTERY FEATURES

Battery Isolator	Δ
Battery Type	Dry
Battery Size (Ah)	66
Number of Batteries	1
Battery Charger	x

Standard: ● Not Available: x Optional: Δ

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 (Canopy)	●
Water Jacket Heater	x
Manual Fuel Fill	Δ
Electric Fuel Fill	x
Racor Fuel Filter (No Alarm)	x
Racor Fuel Filter (With Alarm)	x
Pre-Filter with Separator	x
Fuel Level Sender	●
External Fuel Fill	Δ
3 Way Fuel Valve and Coupling Nest	x
Industrial Silencer	●

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 (Shunt Trip)	●
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	●
Standard: ● Not Available: x Optional: Δ	

JCB COMMUNICATION AND CONTROL

KSI	Δ
CPI	●
CP2	Δ
ATP	Δ
Standard: ● Not Available: x Optional: Δ	

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.

WEIGHT AND DIMENSIONS – Open Set

Length	mm	1450
Width	mm	620
Height	mm	1286
Shipping Volume (sea ready)	m ³	1.16
Weight*	Kg	369

*Standard build with all fluids except fuel

WEIGHT AND DIMENSIONS – Canopy set

Length	mm	1475
Width	mm	750
Height	mm	1104
Shipping Volume (sea ready)	m ³	1.22
Weight*	Kg	506

*Standard build with all fluids except fuel

FUEL TANK OPTIONS

	Material	Capacity (L)
Standard Tank – Open Set	Plastic	23
Standard Tank – Canopy Set	Plastic	60

SOUND PRESSURE (CANOPY ONLY)

LpA (7m)	50Hz	dB(A)	57
LpA (7m)	60Hz	dB(A)	69

CANOPY/SKID

Lockable Maintenance Access Doors	●
Control Panel Viewing Window	●
Fork Pockets	●
Single Lift Point	x
Rental Sledging Base	x
Bunding	●
Bund Level Indicator	Δ
50mm Rock Wool Sound Insulation	●
Yellow Paint	●
Red Paint	Δ
White Paint	Δ
Residential Silencer	●

Standard: ● Not Available: x Optional: Δ



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