





DIESEL GENERATOR

FUEL OPTIMISED

ELECTRICAL

			Pri	me	Star	ndby			
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
50	3	400/230V	17.00	13.60	18.00	14.40	25.00	30.00	1500
50	1	230V	13.20	13.20	14.20	14.20	40.00	50.00	1500
60	3	380/220V	17.00	13.60	18.00	14.40	32.00	40.00	1800
60	3	220/I27V	18.60	14.90	19.70	15.80	50.00	63.00	1800
60	3	480/277V	20.40	16.30	21.60	17.30	50.00	50.00	1800

POWER FACTOR	
3 Phase	0.8
I Phase	1

MAXIMUM LOAD IMPACT*				
kVA	17.10			
kW 13.70				
	13.70			

*With 20% voltage and 10% frequency deviation @ 50Hz, 400V

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

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CANOPY/SKID			
Lockable Maintenance Access Doors			•
Control Panel Viewing Window			•
Fork Pockets			•
Single Lift Point			•
Rental Sledging Base			Δ
Bunding			•
Open Frame			X
Bund Level Indicator			Δ
50mm Rock Wool Sound Insulation			X
Yellow Paint			•
Red Paint			Δ
White Paint			Δ
Standard: ●	Not Available: x	Optional: Δ	

ALTERNATOR HM160A1	
Poles	4
Winding Connections	Star (3Ph) / Parallel (1Ph)
Insulation	Class H
Enclosure	IP23
Exciter System	Self-regulating brushless
Voltage Regulator	AVR
Steady State Voltage Regulation	+/- 1.0%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Winding Protection Standard +

STARTING SYSTEM					
Starter Motor	kW	1.40			
Battery Capacity	Ah	92			
Number of Batteries		1			
Auxiliary Voltage	V	12			

ENGINE					
I 500 RPM					
Output Rating (PRP)	kW	14.80			
Output Rating (Standby)	kW	15.80			
	1800 R	PM			
Output Rating (PRP)	kW	17.70			
Output Rating (Standby)	kW	19.20			
Manufacturer and Model		Yanmar 4TNV88BGGEH			
Fuel		Diesel			
Injection		Direct			
Aspiration		Natural			
Cylinders		4			
Bore and Stroke	mm	88 x 90			
Displacement	L	2.19			
Cooling		Water			
Engine Oil Specification		SAE 3 Class 10W30 / IPE Grade CD,CF			
Compression Ratio		19:1			
Engine Oil Capacity	L	7.40			
Coolant Capacity	L	5.50			
Governor		Mechanical			
Air Filter		Dry			
Engine Oil Consumption	100% Load	0.27 g/kWh			

FUEL SYSTEM					
Diesel Specification		EN590			
Standard Fuel Tank Capacity	L	100			

FUEL TANK OPTIONS		
	Material	Capacity (L)
Standard Tank	Plastic	100
Tank Option 1	Steel	190
Tank Option 2		

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FUEL CONSUMPTION					
100% Load Prime	L/h		4.27		
75% Load Prime	L/h	FOL 1	3.29		
50% Load Prime	L/h	50Hz	2.40		
100% Load Standby	L/h		4.63		
100% Load Prime	L/h		6.06		
75% Load Prime	L/h	60Hz	3.80		
50% Load Prime	L/h	60HZ	3.33		
100% Load Standby	L/h		6.41		
EXHAUST SYSTEM					
Maximum Temperature 100% Standby	°C		470.00		
Exhaust Gas Flow 100% Standby	m ^{3/} min	50Hz	4.24		
Maximum Allowed Back Pressure	mbar		127.00		
Maximum Temperature 100% Standby	°C		530.00		
Exhaust Gas Flow 100% Standby	m ^{3/} min	60Hz	5.59		
Maximum Allowed Back Pressure	mbar		1300.00		
Exhaust Flange Size	mm	5	0.00		
`AIR SYSTEM					
Intake Air Flow 100% Standby	m³/h		88.70		
Total Cooling Air Flow 100% Standby	m ³ /s	50Hz	0.80		
Alternator Fan Airflow	m^3/s		0.09		
Intake Air Flow 100% Standby	m ³ /h		106.43		
Total Cooling Air Flow 100% Standby	m ³ /s	60Hz	0.987		
Alternator Fan Airflow	m³/s		0.108		
SOUND PRESSURE (CANOPY ONLY)					
LpA (7m) 50H	-lz d	B(A)	50		
LpA (7m) 60H	Hz d	B(A)	51		

MECHANICAL FEATURES			
Cooling Pack			•
Air Filter			•
Mechanical Governor			•
Electronic Governor			X
High Coolant Temperature Sender			•
Low Oil Pressure Sender			•
Advanced Coolant Temperature Sender			Δ
Advanced Oil Pressure Sender			Δ
Oil Temperature Sender			X
Water Level Sender			X
Radiator Guards			•
Hot Component Guards			•
Manual Oil Drain Pump (Canopy)			•
Water Jacket Heater			•
Manual Fuel Fill			Δ
Electric Fuel Fill			Δ
Racor Fuel Filter (No Alarm)			Δ
Racor Fuel Filter (With Alarm)			Δ
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			Δ
Residential Silencer			•
Industrial Silencer			×
Standard: ●	Not Available: x	Optional: 4	1

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ELECTRICAL FEATURES			
AVR DSR			•
AVR DER			×
Winding Protection Standard	X		
Winding Protection Standard +			•
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 bus	Δ		
Preparation for Earth Spike			•
Optional Voltages			Δ
Remote Screen			Δ
Panel Door Micro Switch			Δ
Copper Busbar/Tails	Δ		
Emergency Stop Button			•
External Emergency Stop Button			•
Standard: ●	Not Available: x	Optional: 2	Δ
BATTERY FEATURES			

BATTERY FEAT	URES			
Battery Isolator			Δ	
Battery Type			Dry	
Battery Size (Ah)			66Ah	
Number of Batterie	es		1	
Optional Battery			Wet	
Battery Charger			•	
	Standard: •	Not Available: x	Optional: Δ	

JCB COMMUNICATION AND CONTROL					
KSI				×	
CPI				•	
CP2				Δ	
ATP				Δ	
CAN/USB				Δ	
CAN/LAN				Δ	
CAN RS-232				Δ	
Remote Modem				Δ	
	Standard: ●	Not Available: x	Optional: Δ		

WEIGHT AND DIMENSIONS						
Length	mm	2100				
Width	mm	975				
Height	mm	1349				
Shipping Volume (sea ready)	m ³	2.76				
Weight*	Kg	765.00				

^{*}Standard build with all fluids except fuel

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.

JCB GENERATOR TECHNICAL SPECIFICATIONS. Tel: +44 (0)1889 590312. www.jcbgenerators.com. JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories.