







DIESEL GENERATOR

STAGE IIIA

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	I	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	220/127V	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		MAXIMUM LOAD IMPAC	Τ*
3 Phase	0.8	kVA	17.10
I Phase	I	kW	13.70
		*With 20% voltage and 10% frequency deviation (9 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

Auxiliary Voltage

Lockable Maintenar	nce Access Doors			х
Control Panel View	ring Window			Х
Fork Pockets				•
Single Lift Point				Х
Rental Sledging Base	e			Х
Bunding				Δ
Open Frame				•
Bund Level Indicato	or			×
50mm Rock Wool	Sound Insulation			Х
Yellow Paint				Х
Red Paint				х
White Paint				Х
	Standard: •	Not Available: x	Optional: Δ	<u> </u>

ALTERNATOR HM160A1				
4				
Star (3Ph) / Parallel (1Ph)				
Class H				
IP23				
Self-regulating brushless				
AVR				
+/- 1.0%				
Single bearing sealed				
Flexible disc				
Direct drive centrifugal blower fan				
Winding Protection Standard +				

V

STARTING SYSTEMStarter MotorkWBattery CapacityAhNumber of BatteriesImage: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2"

ENGINE					
I 500 RPM					
Output Rating (PRP)	kW 14.80				
Output Rating (Standby)	kW		15.80		
Output Nating (Standby)	1800 R	DM	13.00		
Output Rating (PRP) KW 17.70					
Output Rating (Standby)	kW		19.20		
	NV V				
Manufacturer and Model		Yan	mar 4TNV88BGGEH		
Fuel			Diesel		
Injection			Direct		
Aspiration			Natural		
Cylinders			4		
Bore and Stroke	mm		88 × 90		
Displacement	L		2.19		
Cooling			Water		
Engine Oil Specification		SAE 3 Class	s 10W30 / IPE Grade CD,CF		
Compression Ratio			9:		
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	60			
FUEL TANK OPTIONS					
	Mate	erial	Capacity (L)		
Standard Tank	Plastic		60		
Tank Option I					

Tank Option 2

1.40

92

12

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FUEL CONSUMPTION					
100% Load Prime		L/h			4.27
75% Load Prime		L/h	50Hz		3.29
50% Load Prime		L/h	SUHZ		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% Stand	ру і	m ^{3/} min	50Hz		4.24
Maximum Allowed Back Pressu	re	mbar			127.00
Maximum Temperature 100%	Standby	°C			530.00
Exhaust Gas Flow 100% Stand	ру і	m ^{3/} min	60Hz		5.59
Maximum Allowed Back Pressu	re	mbar			1300.00
Exhaust Flange Size		mm		50.00)
`AIR SYSTEM					
Intake Air Flow 100% Standby		m³/h			88.70
Total Cooling Air Flow 100% S	tandby	m ³ /s	50Hz		0.80
Alternator Fan Airflow		m³/s			0.09
Intake Air Flow 100% Standby		m³/h			106.43
Total Cooling Air Flow 100% Standby		m ³ /s	60Hz		0.987
Alternator Fan Airflow		m ³ /s			0.108
SOUND PRESSURE (CANO	OPY ONLY)				
LpA (7m)	50Hz	C	dΒ(A)		N/A
LpA (7m)	60Hz	C	dB(A)		N/A

MECHANICAL FEATURES			
Cooling Pack			•
Air Filter			•
Mechanical Governor			•
Electronic Governor			X
High Coolant Temperature Sender			•
Low Oil Pressure Sender			•
Advanced Coolant Temperature Sende	r		Δ
Advanced Oil Pressure Sender			Δ
Oil Temperature Sender			х
Water Level Sender			х
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			Х
External Spark Arrestor			Δ
Fuel Level Sender	•		
Fuel Heater	Δ		
External Fuel Fill (Belly Tank)	•		
3 Way Fuel Valve and Coupling Nest	Δ		
Residential Silencer	Δ		
Industrial Silencer			•
Standard: •	Not Available: x	Optional: /	Δ

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ELECTRICAL FEATURES

AVR DSR				•
AVR DER				х
Winding Protect	ion Standard			х
Winding Protect	ion Standard +			•
Winding Protect	ion Grey			Δ
Winding Protect	ion Total			Δ
Winding Protect	ion Total +			Δ
MAUX				•
PMG				Δ
Anti-Condensati	on Heater			Δ
Miniature Circui	t Breaker (Integrated	busbar)		•
Moulded Case (Circuit Breaker (with	integrated busbar)		х
Earth Leakage P	rotection (Shunt Trip)		•
Synchronisation				х
Socket Box (incl	х			
Preparation for I	Earth Spike			•
Optional Voltage	25			Δ
Remote Screen				Δ
Panel Door Mici	ro Switch			х
Copper Busbar/	Tails			х
Emergency Stop	Button			•
External Emerge	ency Stop Button			x
	Standard: •	Not Available: x	Optional: Δ	

BATTERY FEATURES

Battery Isolator	Δ
Battery Type	Dry
Battery Size (Ah)	66Ah
Number of Batteries	I
Optional Battery	Wet
Battery Charger	•
Standard: ● Not Available: x C	Optional: Δ

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

WEIGHT AND DIMENSIONS

Length	mm	1450
Width	mm	620
Height	mm	1286
Shipping Volume (sea ready)	m ³	1.16
Weight*	Kg	409.00
*Company build with all fluide average fund		

*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, EN 13857, EN 60204
- 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 1 000mbar, 25°C, 30% relative humidity ISO3046 Information based on standard specification equipment unless otherwise stated.

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