





DIESEL GENERATOR

STAGE IIIA

ELECTRICAL

		Prime		Standby					
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
50	3	400/230V	21	17	23	18	32	40	1500
50	1	230V	16	16	17	17	50	63	1500
60	3	380/220V	25	20	27	21	40	40	1800
60	3	220/I27V	27	22	29	23	63	80	1800
60	3	480/277V	27	22	30	24	50	50	1800

POWER FACTOR				
3 Phase	0.8			
I Phase	1			

MAXIMUM LOAD IMPACT*				
kVA	20.00			
kW 16.20				
W1454 3000 1 1 1000 5 1 1 1 1	5011 40011			

*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.



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

ALTERNATOR HM160BI					
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 +					

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

ENGINE							
	1500 R	PM					
Output Rating (PRP)	kW	19.10					
Output Rating (Standby)	kW	21.00					
	1800 RPM						
Output Rating (PRP)	kW	24.20					
Output Rating (Standby)	kW	26.80					
Manufacturer and Model		Yanmar 4TNV84TBGGEH					
Fuel		Diesel					
Injection		Direct					
Aspiration		Turbo Charged					
Cylinders		4					
Bore and Stroke	mm	84 x 90					
Displacement	L	1.995					
Cooling		Water					
Engine Oil Specification		SAE 3 Class 10W30 / IPE Grade CD,CF					
Compression Ratio		18.9:1					
Engine Oil Capacity	L	7.40					
Coolant Capacity	L	5.80					
Governor		Mechanical					
Air Filter		Dry					
Engine Oil Consumption	100% Load	0.27 g/kWh					

FUEL SYSTEM					
Diesel Specification		EN590			
Standard Fuel Tank Capacity	L	76			

FUEL TANK OPTIONS						
	Material	Capacity (L)				
Standard Tank	Plastic	76				
Tank Option 1						
Tank Option 2						



FUEL CONSUMPTION				
100% Load Prime	L/h			4.95
75% Load Prime	L/h	FOL 1	50Hz	
50% Load Prime	L/h	50Hz		
100% Load Standby	L/h			5.47
100% Load Prime	L/h			
75% Load Prime	L/h	60Hz		4.80
50% Load Prime	L/h	60HZ		3.50
100% Load Standby	L/h			7.23
EXHAUST SYSTEM				
Maximum Temperature 100% Standby	°C			450.00
Exhaust Gas Flow 100% Standby	m ^{3/} min	50Hz		5.24
Maximum Allowed Back Pressure	mbar			98.00
Maximum Temperature 100% Standby	°C			540.00
Exhaust Gas Flow 100% Standby	m ^{3/} min	60Hz		7.52
Maximum Allowed Back Pressure	mbar			1000.00
Exhaust Flange Size	mm		65.00)
`AIR SYSTEM				
Intake Air Flow 100% Standby	m³/h			116.71
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	m³/h			140.05
Total Cooling Air Flow 100% Standby	m³/s	60Hz		0.987
Alternator Fan Airflow	m³/s			0.108
SOUND PRESSURE (CANOPY ONLY)			
LpA (7m) 50Hz		dB(A)		N/A
LpA (7m) 60Hz		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 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)			•
3 Way Fuel Valve and Coupling Nest			Δ
Residential Silencer			Δ
Industrial Silencer			•
Standard: ●	Not Available: x	Optional: Δ	

Battery Charger

Standard: •



ELECTRICAL FEATURES	
AVR DSR	•
AVR DER	X
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 busbar & micro switch)	X
Preparation for Earth Spike	•
Optional Voltages	Δ
Remote Screen	Δ
Panel Door Micro Switch	X
Copper Busbar/Tails	X
Emergency Stop Button	•
External Emergency Stop Button	X
Standard: ● Not Available: x C	Optional: Δ
BATTERY FEATURES	
Battery Isolator	Δ
Battery Type	Dry
Battery Size (Ah)	66Ah
Number of Batteries	
Optional Battery	Wet

Not Available: x

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	1700			
Width	mm	620			
Height	mm	1286			
Shipping Volume (sea ready)	m^3	1.36			
Weight*	Kg	452.00			
*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/I4/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.

Optional: Δ