

**KEY FACTS**

Integrated – Engineered – Power solution

High fuel efficiency

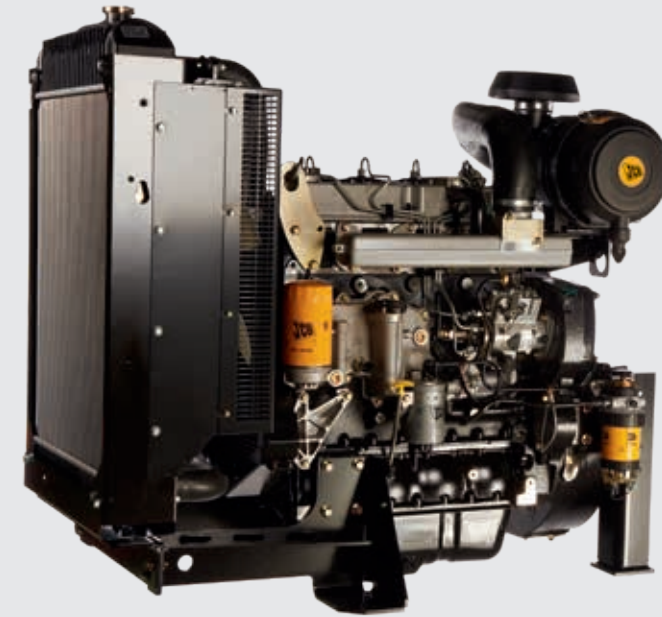
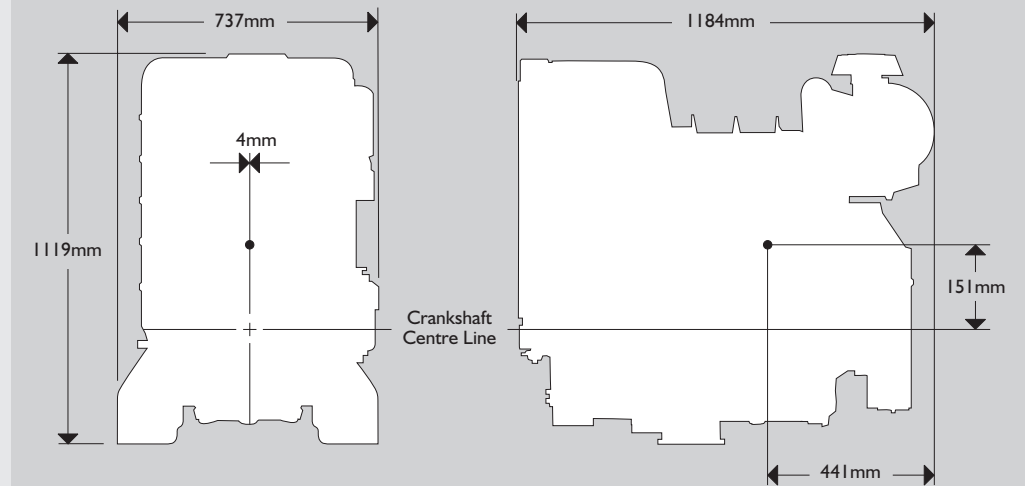
Low cost of ownership

High load acceptance

JCB Global Support

**GENERAL TECHNICAL DATA**

Model		Prime	Standby
		444NG	
Aspiration		NA	
Emissions level		Stage II	
<b>Calculated gen-set output:</b>			
kWe (1)		40	44
kVA (2)		50	55
Gross power	kWm	47	52
Net power	kWm	44	48
Thermodynamic cycle		Diesel 4 stroke	
Arrangement		In-line 4 cylinder	
Bore	mm (in)	103 (4.1)	
Stroke	mm (in)	132 (5.2)	
Total displacement	cm <sup>3</sup> (in <sup>3</sup> )	4399 (268.4)	
Valves per cylinder		4	
Injection system		Mechanical	
Cooling		Liquid	
Direction of rotation (viewed from crank nose)		Clockwise	
Minimum starting temperature without auxiliaries	°C (°F)	-12 (10)	
Dry weight	kg (lb)	565 (1245.6)	
<b>Notes</b>			
(1) kWe calculation assumes X% alternator efficiency		90%	
<b>Fuel consumption</b>			
110% load	l/h (g/kWh)	14.3 (234)	
100% load	l/h (g/kWh)	12.6 (232)	
75% load	l/h (g/kWh)	9.3 (225)	
50% load	l/h (g/kWh)	6.3 (228)	
Governing		ISO8528 G2 Class	


**DIMENSIONS**


**STANDARD CONFIGURATION**

Flywheel housing		SAE3
Intake manifold location		Left hand
Exhaust manifold / turbocharger location		Right hand
Rotational mass moment of inertia excluding flywheel	kgm <sup>2</sup>	0.2255
Turbocharger		Central mounting
Fan drive ratios		1:1
Distance between fan - crankshaft centres	mm (in)	356 (14)
Fuel filter		Engine mounted
Fuel lift pump		Mechanical with primer
Oil filter		Single, vertical - LHS
Oil sump		Pressed steel
Breather system		Closed
Oil cooler		LHS
Oil filler position		Top and left hand side
Starter motor		12V, 4.2kW
Alternator		12V, 95A
Power Take-off: Heavy Duty		Option (205Nm)
Power Take-off: Light Duty		6.8kW
Finish		Lacquered

\*Orientation from flywheel.

**DIMENSIONS**

Length	mm (in)	1184 (46.6)
Width	mm (in)	737 (29)
Height	mm (in)	1119 (44.1)

**OPTIONS**

Extensive range of configuration options available - contact local JCB Power Systems dealer, or JCB Power Systems sales and applications department for availability and configuration options.