

KEY FACTS

Integrated – Engineered – Power solution

High fuel efficiency

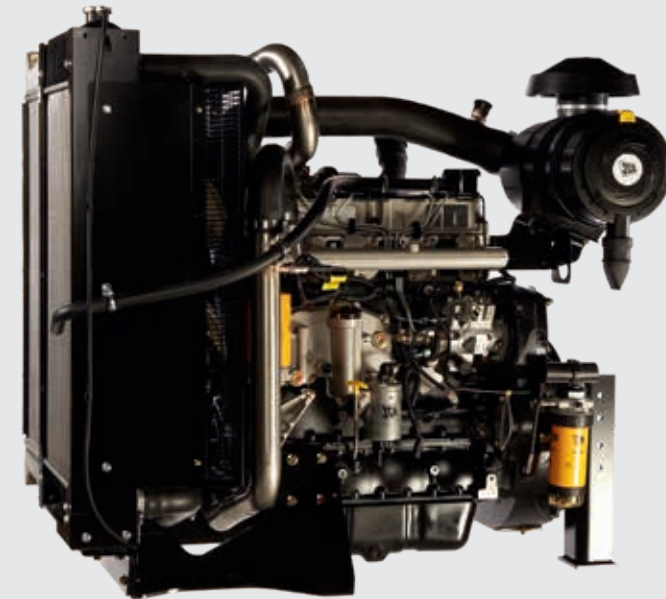
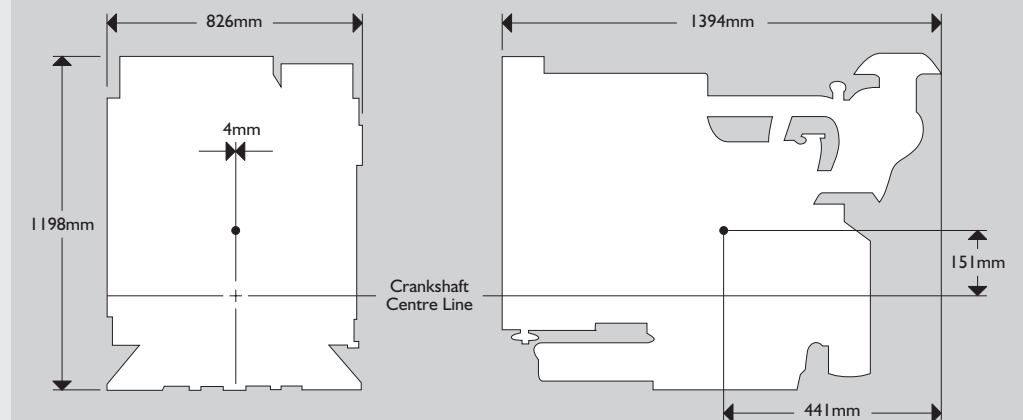
Low cost of ownership

High load acceptance

JCB Global Support

GENERAL TECHNICAL DATA

Model		Prime	Standby
		444TAG	
Aspiration		TCA	
Emissions level		Stage II	
Calculated gen-set output:			
kWe (1)		87	96
kVA (2)		109	120
Gross power	kWm	100	110
Net power	kWm	96	105
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 ³ (in ³)	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)	605 (1333.8)	
Notes			
(1) kWe calculation assumes X% alternator efficiency		91%	
Fuel consumption			
110% load	l/h (g/kWh)	26.3 (202)	
100% load	l/h (g/kWh)	24.1 (204)	
75% load	l/h (g/kWh)	18.6 (211)	
50% load	l/h (g/kWh)	13 (221)	
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 ²	0.2255
Turbocharger		Central mounting
Fan drive ratios		1:1.6
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		Open
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)	1394 (54.9)
Width	mm (in)	826 (32.5)
Height	mm (in)	1198 (47.2)

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.