

KEY FACTS

A robust and easy to install power solution

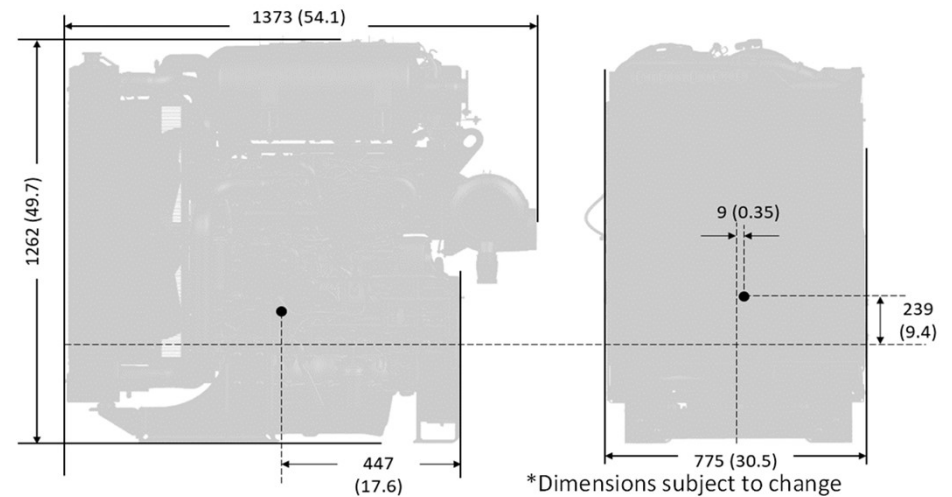
Compact engine mounted exhaust aftertreatment

High load acceptance for optimum performance

Supported with a global JCB distributor and dealership network

GENERAL TECHNICAL DATA

Model	448 TA5-I12	
Aspiration	TCAE	
Emissions level	EU Stage V	
Calculated output	Prime	Standby
kWe (1)	83	83
kVA (2)	103	103
Gross Engine Power	kWm	94
Net Engine Power	kWm	90
Thermodynamic cycle	Diesel 4 stroke	
Arrangement	In-line 4 cylinder	
Bore	mm (in)	106 (4.18)
Stroke	mm (in)	135 (5.31)
Total displacement	cm ³ (in ³)	4765 (290.8)
Valves per cylinder	4	
Injection system	Common rail	
Cooling	Liquid	
Direction of rotation (viewed from crank nose)	Clockwise	
Minimum starting temperature without auxiliaries	°C (°F)	-12 (10)
Dry Weight	kg (lbs)	750 (1654)
Notes		
(1) kWe calculation assumes X% alternator efficiency	92%	
(2) kVA calculation uses 0.8 Power Factor		
Fuel Consumption		
110% load	l/h (gph)	23.2 (6.13)
100% load	l/h (gph)	21.6 (5.7)
75% load	l/h (gph)	15.6 (4.12)
50% load	l/h (gph)	10.5 (2.77)
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 flywl	kgm ²	0.24442 (5.8002)
Turbocharger		Electronic Wastegate
Fan drive ratios		1:1
Distance between fan - crankshaft centres	mm (in)	356 (14)
Fuel filter		Engine mounted
Fuel lift pump		Electronic lift pump
Oil filter		Single, vertical - LHS
Oil sump		Pressed steel
Breather system		Open
Oil cooler		LHS
Oil filler position		Left hand side
Starter motor		12V, 4.2kW (5.6hp)
Alternator		12V, 95A
Power Take-off: Heavy Duty		Optional
Power Take-off: Light Duty		15kW, 40Nm, 1.625:1 LHS
Finish		Lacquered

*Orientation from flywheel.

DIMENSIONS

Length	mm (in)	1373 (54.1)
Width	mm (in)	775 (30.5)
Height	mm (in)	1262 (49.7)

OPTIONS

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