

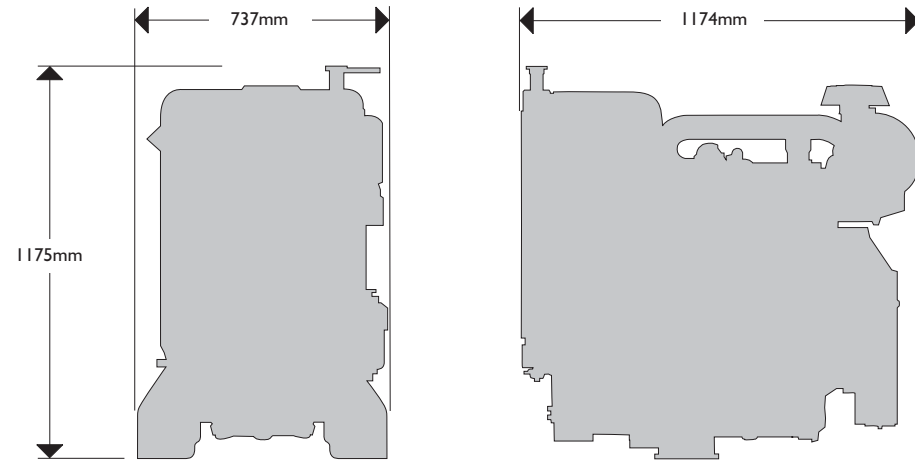


JCB DIESELMAX

**TURBOCHARGED 60KVA & 80KVA PRIME
@50HZ (66KVA & 88KVA STAND-BY)**



G-DRIVE



PERFORMANCE DATA

	G-TC1 1500rpm, 50Hz		G-TC2 1500rpm, 50Hz	
	Prime	Standby	Prime	Standby
Calculated Gen-set output:				
kWe (1)	48	53	64	70
kVA (2)	60	66	80	88
Engine Power (kWm) at kVA rating (3)	56	62	74	81
Fuel consumption at (80kVA rating):				
110% load	l/h (g/kWh) 15.3 (210)		20.1 (207)	
100% load	l/h (g/kWh) 14.1 (215)		18.7 (208)	
75% load	l/h (g/kWh) 10.6 (230)		14.3 (216)	
50% load	l/h (g/kWh) 8.2 (245)		10.2 (232)	
Governing	ISO8528 G2 Class		ISO8528 G2 Class	

Notes: (1) kWe calculation assumes 90% alternator efficiency
 (2) kVA calculation assumes 0.8 Power Factor
 (3) measured according to ISO 14396
 Prime Power and Stand-By as defined by ISO8528-1

GENERAL TECHNICAL DATA

Technical Code	G-TC1 & G-TC2
Thermodynamic cycle	Diesel 4 stroke
Aspiration	TC
Arrangement	inline, 4 cyl.
Nominal Bore x Stroke	mm 103 x 132
Total Displacement	cm3 4399
Valves per cylinder	4
Cooling	Liquid
Direction of rotation (viewed from crank nose)	Clockwise
Compression Ratio	17.5:1
Rotational mass moment of inertia excluding flywheel	kgm2 0.2255
11.5" flywheel inertia	kgm2 0.6986
Exhaust Emissions Certificate	EU 97/68/EC St.2
Minimum Starting temperature without auxiliaries	°C -10
Dry Weight	kg 580

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COOLING SYSTEM

		G-TC1 & G-TC2
Coolant capacity – (inc. Cooling Pack)	Ltrs	16
Cooling liquid maximum temperature	°C	110
Coolant Specification Approved (JCB HP High Performance)		ASTM D6210
Cooling air flow requirement		3.3m ³ /sec@130mmH ₂ O
Maximum working ambient temperature	°C	50
Fan type (standard)		22" Pusher

FUEL SYSTEM

		Rotary Mechanical
Injection system		Rotary Mechanical
Fuel maximum intake restriction	mbar	150
Fuel maximum intake temperature	°C	50
Engine Pre Filter	Micron	30
Engine Main Filter	Micron	5
Fuel maximum return restriction	mbar	250

LUBRICATING SYSTEM

Lubricating oil pressure	bar	4.6	
Maximum oil temperature: Prime (Standby)	°C	125 (135)	
Engine angularity limits (continuous operation):	Maximum front up and front down	deg	35
	Maximum right hand and left hand	deg	35
Total system capacity – including pipes, filters etc	Ltrs	14	
Minimum recommended oil grade	API	CH4	
Oil filter maintenance service schedule	Hours	500	
Oil Consumption	% of fuel consumed	0.1	

EXHAUST SYSTEM

Maximum allowable back pressure	mbar	100
Maximum exhaust temperature at full rated speed	°C	542
Exhaust flow at maximum output	kg/h	367

ELECTRICAL SYSTEM

		G-TC1 & G-TC2
Starter and Alternator	V	12, Earth return
Minimum Cranking Speed	rpm	100
Battery – minimum capacity recommended, not included		145Ah.
Battery – minimum cold cranking capacity recommended, not included		850CCA

AIR INDUCTION SYSTEM

Maximum allowable restriction with dirty air filter	mbar	80
Air requirement for combustion at 100% rated speed	kg/h	367
Air filter type		2 stage paper element

STANDARD CONFIGURATION

Flywheel housing		SAE 3
Flywheel		SAE 11.5"
Intake manifold location		Left hand
Exhaust manifold/ Turbocharger location		Right hand
Turbocharger		NA
Fan transmission ratios		1.25
Distance between fan – crankshaft centres	mm	356
Main Fuel Filter & Pre Filter		Included
Fuel pump		Mechanical with primer
Oil filter		1, left side
Oil sump		Pressed dual skin
Oil vapours blow-by circuit		Open
Oil heat exchanger		Left side
Oil filter position		Top and left side
Starter motor		12V, 4.2kW
Alternator		12V, 95A
Engine stop		Electric
Power Take off Light Duty	kW	6.8
Finish		Lacquered



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