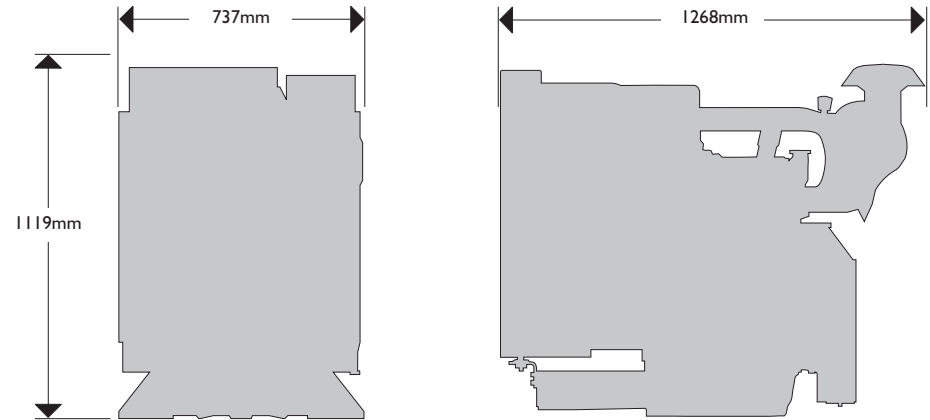



**G-DRIVE**

**PERFORMANCE DATA**

	G-TC	
	Prime	Standby
Calculated gen-set output:		
kWe (1)	62	69
kVA (2)	78	86
Nett engine power (kWm) at kVA rating (3)	64	70
Fuel consumption at:		
110% load	l/h (g/kWh)	21.1 (223)
100% load	l/h (g/kWh)	19.3 (224)
75% load	l/h (g/kWh)	15.0 (232)
50% load	l/h (g/kWh)	10.5 (244)
Governing	ISO8528 G2 Class	

Notes: (1) kWe calculation assumes 91% 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  
 Assume 8kW fan power consumption

**GENERAL TECHNICAL DATA**

Technical Code	G-TC
Thermodynamic cycle	Diesel 4 stroke
Aspiration	TC
Arrangement	inline, 4 cyl.
Nominal bore x stroke	mm 106 x 135
Total displacement	cm <sup>3</sup> 4765
Valves per cylinder	4
Cooling	Liquid
Direction of rotation (viewed from crank nose)	Clockwise
Compression ratio	18
Rotational mass moment of inertia excluding flywheel	kgm <sup>2</sup> 0.2255
11.5" flywheel inertia	kgm <sup>2</sup> 0.6986
Exhaust emissions certificate	EU 97/68/EC St.3A
Minimum starting temperature without auxiliaries	°C -10
Dry weight	kg 566

**COOLING SYSTEM**

		<b>G-TC</b>
Coolant capacity – engine only	Ltrs	7
Cooling liquid maximum temperature	°C	110
Coolant specification approved (JCB HP high performance)		ASTM D6210
Cooling air flow requirement and canopy depression		3.3m <sup>3</sup> /sec @ 13mm H <sub>2</sub> O
Maximum working ambient temperature	°C	50
Fan type (standard)		22" Pusher

**FUEL SYSTEM**

		<b>Mechanical</b>
Injection system		Mechanical
Fuel maximum intake restriction (@ electric lift pump inlet)	mbar	50
Fuel maximum intake temperature	°C	80
Engine pre-filter (electric lift pump)	Micron	30
Engine main filter	Micron	5
Fuel maximum return restriction	mbar	50
Water in fuel sensor		

**EXHAUST SYSTEM**

Maximum allowable back pressure	mbar	100
Exhaust temperature at standby rating	°C	571*
Exhaust flow at standby rating	kg/h	367

**LUBRICATING SYSTEM**

		<b>G-TC</b>
Lubricating oil pressure	bar	4.6
Maximum oil temperature:	°C	125
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 15W40
Oil filter maintenance service schedule	Hours	500
Oil consumption	% of fuel consumed	0.1

\*Stack temperature, not manifold

**ELECTRICAL SYSTEM**

		<b>G-TC</b>
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 Standby rating	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		Central mounting
Fan transmission ratios		1.25:1
Distance between fan – crankshaft centres	mm	356
Main fuel filter & pre-filter both included		Electric lift pump
Fuel pump		Mech with primer
Oil filter		Left side
Oil vapours blow-by circuit		Filtered, open
Oil heat exchanger		Left side
Oil fill positions		Top and left side
Starter motor		12V, 4.2kW
Alternator		12V, 85A
Engine stop		Electric
Power Take Off light-duty	kW	6.8
Finish		Lacquered

**OPTIONAL EQUIPMENT**

Electrical connector kit.  
240/110V block heater.