

TR2 G BUILD ENGINE

TR2

Power range: 11.0 - 14.4 kW; 14.8 - 19.3 bhp
Fixed speeds: 1500, 1800 r/min

RELIABLE, DURABLE TWO CYLINDER AIR COOLED G BUILD DIESEL ENGINE

SPECIAL ATTRIBUTES

- suitable for generating sets
- designed for continuous operation in ambient temperatures up to 52°C (122°F)
- oil cooling by means of air flow over deep crankcase finning

BASIC ENGINE CHARACTERISTICS

- diesel fuelled
- direct injection
- two cylinders
- air cooled
- naturally aspirated
- electric start (hand start optional)

DESIGN FEATURES AND EQUIPMENT

- medium duty air cleaner*
- inlet and exhaust manifolds
- fuel injection pump and self-vent fuel system
- fuel filter
- fuel lift pump*
- self-regulating plunger type lubricating oil pump
- spin-on lubricating oil filter
- decompressor lever
- flywheel with cooling fan**
- flywheel housing with SAE 4 flange**
- mechanical governing
- 12V starter motor*
- safety switches*
- fuel control solenoid (energised to run)*
- standard skid base packing
- 250 hour service intervals
- operators' handbook

EMISSIONS

- complies with EU Stage 3A emissions regulations



TR2 ENGINE

OPTIONAL ITEMS

- 12V battery charge windings
- SAE4:5 ventilated adaptor
- SAE4:4 ventilated adaptor
- 7.5" drive member

See also items with asterisk under Design Features and Equipment.

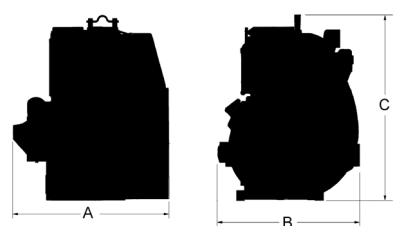
NOTE: T range genset engines are configured to accept dedicated single bearing alternators manufactured specifically to suit the TR bare flywheel arrangement. For alternators other than these it will be necessary to add to the specifications a ventilated adaptor (SAE4 or SAE5) and a drive member (TR2 - 7.5").

POWER OUTPUTS			
Power	r/min	1500	1800
Continuous	kW	11.0	13.1
	bhp	14.8	17.6
Fuel Stop	kW	12.1	14.4
	bhp	16.2	19.3

Notes: 1. Power ratings measured at the flywheel apply to a fully run-in, non derated engine without power absorbing accessories or transmission equipment. 2. The overload capability applies to a fully run-in engine. This is normally attained after a running period of about 50 hours. 3. Excluding radiator.

TECHNICAL DATA		
Type of fuel injection	Direct	
Number of cylinders	2	
Aspiration	Natural	
Direction of rotation looking on flywheel end	Anti Clockwise	
Nominal cylinder bore	mm	98.42
	in	3.875
Stroke	mm	101.6
	in	4.0
Total cylinder capacity	litre	1.55
	in ³	94.35
Compression ratio	15.5:1	
Minimum idling speed	r/min	850
Number of flywheel ring gear teeth	110	
Crankshaft end thrust (maximum continuous)	kgf	132
	lbf	290
Crankcase vacuum (minimum)	mbar	2.5
	in H ₂ O	1.0
Crankcase vacuum (average)	mbar	4.6
	in H ₂ O	1.8
Lubricating oil pressure (mean) with the oil at 110°C (230°F)	bar	2.0
	lbf ft ²	29

APPROXIMATE DIMENSIONS AND WEIGHT ¹		
		TR2
Dry weight	kg	185
	lb	408
Length (A) without fuel tank	mm	571
	in	22.5
Width (B)	mm	521
	in	20.5
Height (C)	mm	683
	in	26.9



RATING DEFINITIONS, TO ISO 3046

ISO Standard Conditions

Barometric pressure 100 kPa
 Relative humidity 30%
 Ambient temperature at air inlet manifold 25°C

Fixed speed power: continuous power (ICN)

The power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under ISO standard conditions, measured at the flywheel without power-absorbing accessories, provided that the engine is overhauled and maintained in good operating condition and that fuel to BS EN 590 Class A1 or A2, and lubricating oils to the correct performance specification and viscosity classification as recommended by Lister Petter Limited, are used.

Fixed speed power: overload power (ICXN)

The maximum power in kW which the engine is capable of delivering intermittently at the stated crankshaft speed for a period not exceeding one hour in any period of twelve hours' continuous running, immediately after working at the continuous power, under ISO standard conditions and with the provisions specified for continuous power above.

De-rating

For non-standard site conditions, reference should be made to relevant BS, ISO and DIN standards.

A range of options allows you to select a specification that matches your requirements; please consult your Lister Petter distributor.

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