

TR1 G BUILD ENGINE

TR1

Power range: 5.5-7.4 kW; 7.4-9.9 bhp Fixed speeds: 1500, 1800 r/min

RELIABLE, DURABLE SINGLE 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
- single cylinder
- 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**
- SAE 4 flywheel housing**
- · 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



TR1 ENGINE

OPTIONAL ITEMS

- 12V battery charge windings
- SAE4:5 ventilated adaptor
- SAE4:4 ventilated adaptor
- 6.5" 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 (TR1 - 6.5").

^{*} Optional items standard on most builds; ** Options available

^{***} Please refer to Applications Department for cyclic irregularity implications

POWER OUTPUTS					
Power	r/min	1500	1800		
Continuous	kW	5.5	6.7		
	bhp	7.4	9.0		
Fuel Stop	kW	6.1	7.4		
	bhp	8.2	9.9		

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	1				
Aspiration	Natural				
Direction of rotation looking on fly	Anti Clockwise				
Naminal aulindar hara	mm	98.42			
Nominal cylinder bore	in	3.875			
Stroke	mm	101.6			
Stroke	in	4.0			
	litre	0.773			
Total cylinder capacity	in ³	47.17			
Compression ratio	15.5:1				
Minimum idling speed	r/min	850			
Number of flywheel ring gear	110				
Crankshaft end thrust	kgf	132			
(maximum continuous)	lbf	290			
Oranica and construction (asia)	mbar	2.0			
Crankcase vacuum (minimum)	in H ₂ O	0.8			
0	mbar	3.5			
Crankcase vacuum (average)	in H ₂ O	1.4			
Lubricating oil pressure (mean)	bar	2.0			
with the oil at 110°C (230°F)	lbf ft²	29			

APPROXIMATE DIMENSIONS AND WEIGHT						
	TR1					
Dry weight	kg	153				
	lb	337				
Length (A) without fuel tank	mm	444				
	in	17.5				
Width (B)	mm	521				
	in	20.5				
Height (C)	mm	683				
	in	26.9				

RATING DEFINITIONS, TO ISO 3046

ISO Standard Conditions

100 kPa Barometric pressure 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 Power Systems 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 Power Systems distributor.





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Skontaktuj się z nami w celu uzyskania profesjonalnej wyceny wdrożenia projektu, instalacji silnika, lub wymiany podzespołów. Nasz profesjonalny zespół szybko i sprawnie przygotuje kompleksową ofertę usługi którą zrealizujemy w przystępnym odstępie czasowym. Posiadamy pełną dokumentację techniczną i szybki dostęp do części oraz materiałów eksploatacyjnych.

SKONTAKTUJ SIĘ Z NAMI



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