



MARINE DIESEL ENGINES

4LHA Series - HTP / DTP / STP

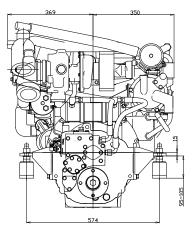
Engine Model		4LHA-HTP	4LHA-DTP	4LHA-STP				
Max. output at crankshaft*	kW [mhp]	113 [154] @3300 rpm	140 [190] @3300 rpm	169 [230] @3300 rpm				
Max. output at crankshaft**	kW [mhp]	118 [160] @3300 rpm	147 [200] @3300 rpm	177 [240] @3300 rpm				
Configuration		In-line, 4-stroke, vertical, water-cooled diesel engine						
No. of cylinders		4 cylinder						
Displacement		3.455 L						
Bore x stroke		100 mm x 110 mm	[3.94 in x 4	3 in]				
Aspiration		Turbocharged & intercooled						
O - m husting suctors		Direct injection,	Direct injection,	Direct injection,				
Combustion system		VE rotary pump	in-line pump	in-line pump				
Starting system		Electric starting 12V - 2.5 kW						
Engine management		Mechanical						
Cooling system		Fresh water cooling by centrifugal fresh water pump						
		Seawater cooling by rubber impeller seawater pump						
Alternator		12V - 80A						
Lubrication system		Enclosed, forced lubricating system						
Engine lube oil specifications		API class: CD or higher, SAE grade: 15W-40						
Direction of rotation at crankshaft		Counterclockwise viewed from stern						
Dry weight without gear		342 kg [754 lbs]	365 kg [805 lbs]	365 kg [805 lbs]				
Engine dimensions ^{\dagger} L x W x H		1131 x 719 x 811 mm						
Emission compliance		EU RCD 1, BSO II, EMC						
Flywheel housing size		SAE #4						
Controls		Mechanical						
* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]			NOTE: Fuel condition: Density at 15° C = 0.84 g/cm ³ · 1 kW = 1.3596 mbp = 1.3410 HP					

** Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046)

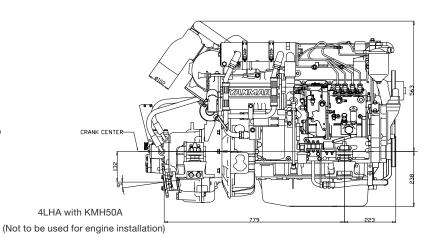
Fuel condition: Density at 15° C = 0.84 g/cm³: 1 kW = 1.3596 mhp = 1.3410 HP +Dimensions include KMH50A gearbox and L-type elbow (Dimensions may vary with other gears/elbow) Technical data is according to (ISO 8665)/(ISO 3046)

DIMENSIONS





Right side view

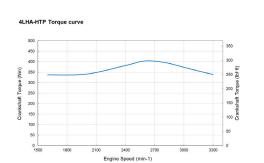


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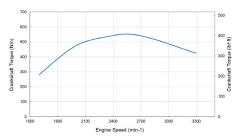


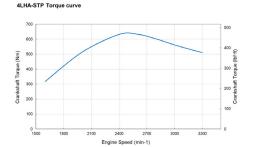


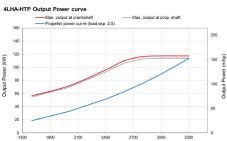
PERFORMANCE CURVES

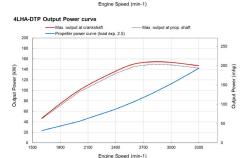


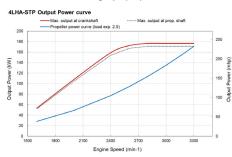


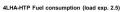


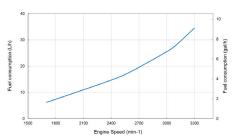




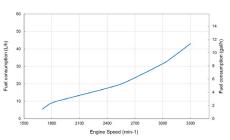




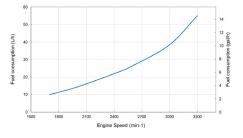




4LHA-DTP Fuel consumption (load exp. 2.5)







MARINE GEAR*

Model	KMH50A-LH [down angle 8°]		KMH50V-LH [down angle 8°]		ZF63A [down angle 8°]					
Туре	Hydraulic multi-disc		Hydraulic multi-disc		Hydraulic, wet multi-disc					
Dry weight	58** [128 lbs]		59 kg [130 lbs]		30 kg [66 lbs]					
Reduction ratio [fwd/asn]	1.67/1.67^^	2.13/2.13	2.43/2.43	1.22/1.22	1.58/1.58	2.08/2.08	1.22/1.22	1.56/1.56	2.04/2.04	2.54/2.54
Direction of rotation [viewed from stern]	Clockwise & counterclockwise		Clockwise & Counterclockwise		Clockwise & counter clockwise					
Lubrication system	Forced lubrication					Forced lubrication				
Lube oil specifications	API class: CF or higher, SAE grade: #30					ATF				
Max. lube oil capacity	1.8 L			5.4 L		4.0 L				
Dry weight - engine & gear	400 kg [882 lbs]			401 kg [884 lbs]			386 kg [851 lbs]			

*For other configurations, consult your local Yanmar distributor.

**Dry weight includes cooler and brackets

^^ KMH50A-LH (1.67 ratio) is not available as standalone supply & hence need to order with engine.

ACCESSORIES

- Standard engine package
- Exhaust mixing elbow [L-type]
- Alternator 12V 80A
- 3G instrument panel

Optional accessories

- High-riser mixing elbow [instead of L-elbow]
- Flexible mounts
- Extension wire harness [3m, 5m, 10m, 20m]
- SOLAS including Certificate [factory fit only]
- Air venting device for cooling water tank
- Lube oil evacuation pump
- Water separator
- Trolling valve [only for KMH50A]