



Yanmar type 6LYA-STP

The Powerful Gem

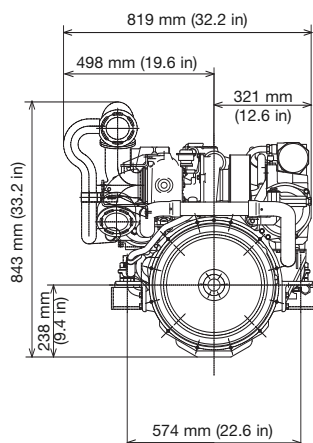


Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 272 kW (370 hp) / 3300 rpm ** 264 kW (359 hp) / 3300 rpm
Continuous rating output at crankshaft	213 kW (290 hp) / 3100 rpm
Displacement	5.184 L (316 cu in)
Bore x stroke	100 mm x 110 mm (3.94 in x 4.33 in)
Cylinders	6 in line
Combustion system	Direct injection
Aspiration	Turbocharged with watercooled turbine housing
Starting system	Electrical starting 12V - 2.5kW
Alternator	12V - 80A
Cooling system	Fresh water cooling by centrifugal fresh water pump and rubber impeller seawater pump
Lubrication system	Enclosed, forced lubricating system
Direction of rotation (crankshaft)	Counter clockwise viewed from stern
Dry weight without gear	530 kg (1168 lbs)
Environmental	SAV, EMC, IMO exhaust regulation compliant and will meet the 2003/44/EC emission requirements effective from 2006
Engine mounting	Rubber type flexible mounting

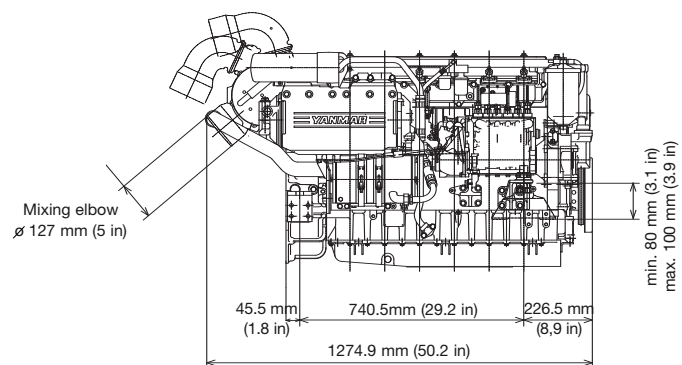
NOTE: Fuel condition: Density at 15°C = 0.842 g/cm³; 1 hp = 0.7355 kW
 * Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)
 ** Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

Dimensions (For detailed line-drawings, please refer to our web-site: www.yanmarmarine.com)

Rear view

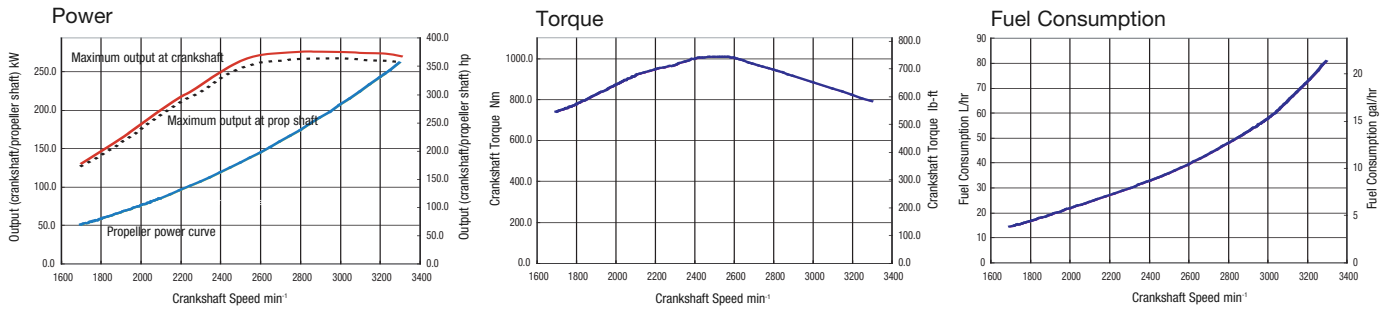


Right side view



6LYA-STP w/o marine gear

Performance Curves (Output is according ISO 8665 - Output includes +/- 6% tolerance)



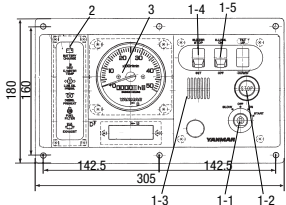
Marine Gears/Drive

Model	ZF80-1A: 8° Angle			MG5050A: 10° Angle			KMH60A		
Type	Wet and multi-disc clutch			Wet and multi-disc clutch			Hydraulically actuated multi-disc clutch		
Dry weight	64 kg (141 lbs)			80 kg (176 lbs)			58 kg (128 lbs)		
Reduction ratio (fwd/asn)	1.20/1.20	1.41/1.41	1.57/1.57	2.00/2.00	2.50/2.50	2.85/2.85	1.55/1.55	2.04/2.04	2.55/2.55
Propeller speed (fwd/asn)	2583/2583	2199/2199	1975/1975	1550/1550	1240/1240	1088/1088	2000/2000	1520/1520	1216/1216
Direction of rotation (propeller shaft - fwd)	Clockwise & counter clockwise viewed from stern			Clockwise & counter clockwise viewed from stern			Clockwise & counter clockwise viewed from stern		
Dry weight engine and gear/drive	594 kg (1310 lbs)			610 kg (1345 lbs)			588 kg (1296 lbs)		
Length engine and gear/drive	1556 mm (61 in)			1556 mm (61 in)			1556 mm (61 in)		

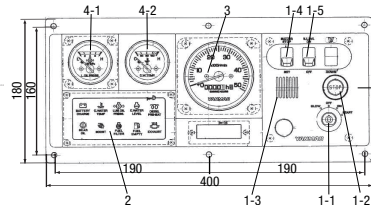
*** Other marine gearboxes and configurations available upon request. Contact your local supplier for more information.

Instrument Panels

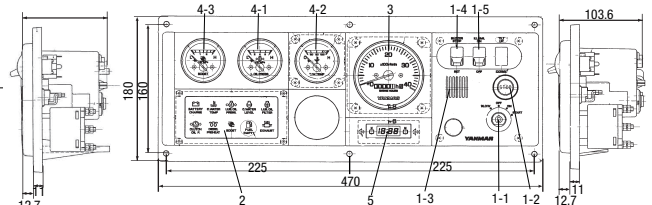
New B-type Panel



New C-type Panel



New D-type Panel



Function	Type of instrument panel		
	New B-type Panel	New C-type Panel	New D-type Panel
① Switch unit			
1-1 1-1 Key switch (starter switch)	O	O	O
1-2 Engine stop switch	O	O	O
1-3 Alarm buzzer (C.W. Temp., L.O. Pressure)	O	O	O
1-4 Alarm buzzer stop switch	O	O	O
1-5 Illumination switch for meters	O	O	O
② Alarm lamp unit			
Battery not charging	O	O	O
C.W. high temperature	O	O	O
L.O. low pressure	O	O	O
Sea water flow	O	O	O
C.W. level for fresh water tank	O	O	O
Boost pressure high	O	O	O
③ Tachometer with hour meter	O	O	O
④ Sub meter unit			
4-1 L.O. pressure meter	X	O	O
4-2 C.W. Temperature meter	X	O	O
4-3 Boost meter (turbo)	X	X	O
⑤ Quartz clock	X	X	O

Note: O = Equipped on panel X = Not equipped on panel

Accessories

Standard Package

- Sensor for various panels
- Exhaust/water mixing elbow (L-type)

Optional

- Flexible mounts
- Fuel water separator
- Exhaust/water mixing elbow, U-type (high riser)
- Sensor for VDO instrument panels

- Alternator 12 V - 80 A

- Analog and digital (New B-type, New C-type and New D-type) instrument panels
- Control heads
- Lub oil evacuation pump
- Dipstick for opposite side

Texts and illustrations are not binding. Yanmar Marine reserves the right to introduce adaptations without prior notification.