

Yanmar type 6LPA-STP2

The Powerful Gem



Configuration	4-stroke, vertical, water cooled diesel engine
Maximum output at crankshaft	* 232 kW (315 mhp) / 3800 rpm ** 222 kW (300 mhp) / 3800 rpm
Continuous rating output at crankshaft	211 kW (286.4 mhp) / 3682 rpm
Displacement	4.164 L (254 cu in)
Bore x stroke	94 mm x 100 mm (3.70 in x 3.94 in)
Cylinders	6 in line
Combustion system	Direct injection
Aspiration	Turbocharged with intercooler
Starting system	Electrical starting 12 V - 2.5 kW
Alternator	12 V - 80 A
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 flywheel side
Dry weight without gear	408 kg (899 lbs)
Environmental	EU RCD, US EPA Tier2, BSO II & EMC
Engine mounting	Rubber type flexible mounting

NOTE: Fuel condition: Density at 15°C = 0.86 g/cm³; 1kW = 1.3596 mhp = 1.3410 HP

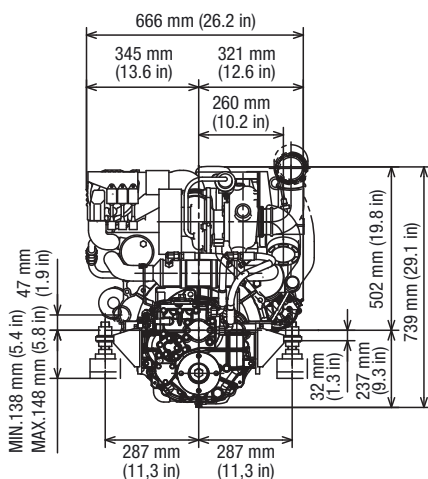
* Fuel temperature 25°C at the inlet of the fuel injection pump (ISO 3046-1)

** Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)

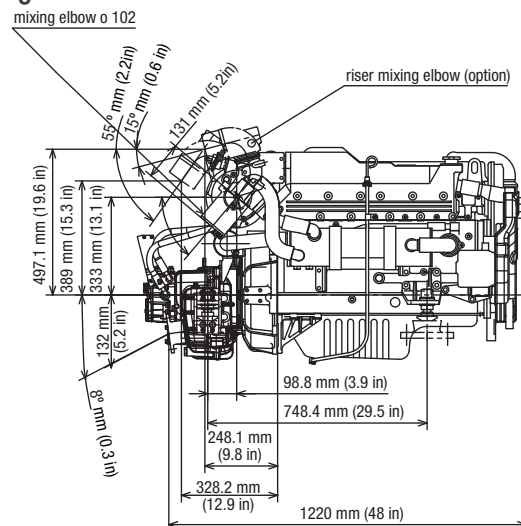
Technical data is according to ISO 8665 / 3046

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

Rear view

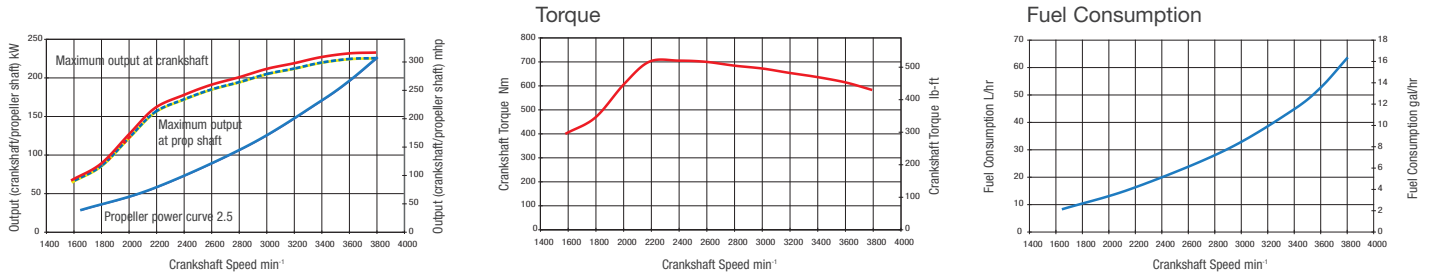


Right side view



6LPA-STP2
KM50A marine gear

Performance Curves (Output is according ISO 8665)



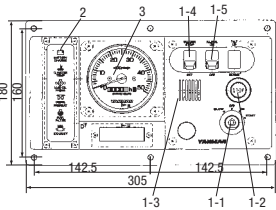
Marine gear (example) ***

Model	KMH50A			ZF63A			
Type	8° down hydraulic			8° down hydraulic			
Dry weight	43 kg (95 lbs)			44 kg (97 lbs)			
Reduction ratio (fwd/asn)	1.67/1.67	2.13/2.13	2.43/2.43	1.22/1.21	1.56/1.58	2.04/2.10	2.52/2.53
Propeller speed (fwd/asn)	2275	1784	1564	3115/3140	2436/2405	1863/1810	1429/1423
Direction of rotation (propeller shaft - fwd)	Counter clockwise viewed from flywheel side			Counter clockwise viewed from flywheel side			
Dry weight engine and gear/drive	449 kg (990 lbs)			452 kg (996 lbs)			
Length engine and gear/drive	1190 mm (46.9 in)			1205 mm (47.4 in)			

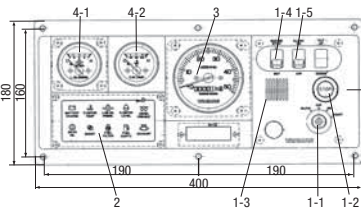
*** Gear also available in; ZF63 (Parallel) reduction ratio: 1.51 & 1.93; ZF63IV (V-drive) reduction ratio: 1.29, 1.56 & 2.00
 *** Other marine gearboxes and configurations available upon request. Contact your local supplier for more information.

Instrument Panels

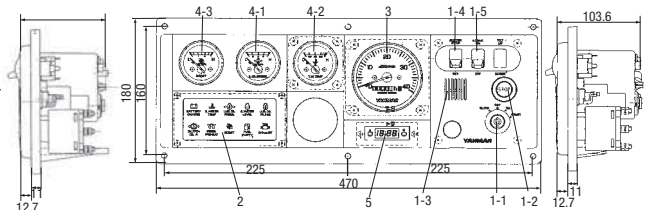
New B-type Panel



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 Key switch for GLOW/OFF/ON/START (4-position 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
F.O. drain separator (water level)	O	O	O
Sea water flow	O	O	O
C.W. level for fresh water tank	X	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)
- Cooling water hoses
- Alternator 12 V - 80 A

Optional

- Flexible mounts
- Water separator
- Exhaust mixing elbow, U-type (high riser)
- Analog (New B-type, New C-type and New D-type) instrument panels
- Dual station Y harness
- Sensor for VDO instrument panels
- Control heads
- Lub oil evacuation pump
- Dipstick for opposite side
- Air venting device for cooling water tank
- VDO instrumentation for main panel and fly bridge

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

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