



# 6LPA-STP2 Series

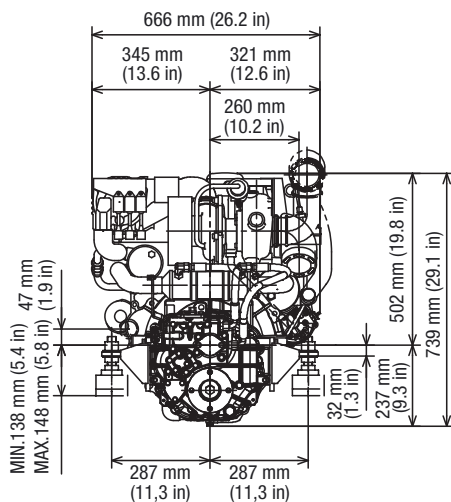
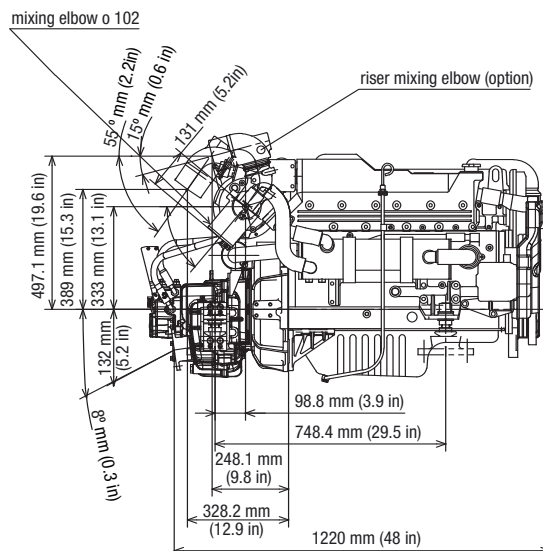
Configuration	4-stroke, vertical, water-cooled diesel engine		
Maximum output at crankshaft	* 232 kW@3800 rpm	[315 mhp@3800 rpm]	
	** 220 kW@3800 rpm	[299 mhp@3800 rpm]	
Displacement	4.164 L	[254 cu in]	
Bore x stroke	94 mm x 100 mm	[3.7 in x 3.94 in]	
Cylinders	In-line, 4 valves per cylinder		
Combustion system	Direct injection		
Aspiration	Turbocharged with intercooler		
Starting system	Electric starting 12V - 2.5 kW		
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]	Counterclockwise viewed from stern		
Dry weight without gear	408 kg	[899 lbs]	
Emission compliance	EU: RCD 1	BSO II	EMC
Engine mounting	Rubber type flexible mounting		

**NOTE:**Fuel condition: Density at 15°C = 0.84 g/cm<sup>3</sup>; 1 kW = 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: 2006]

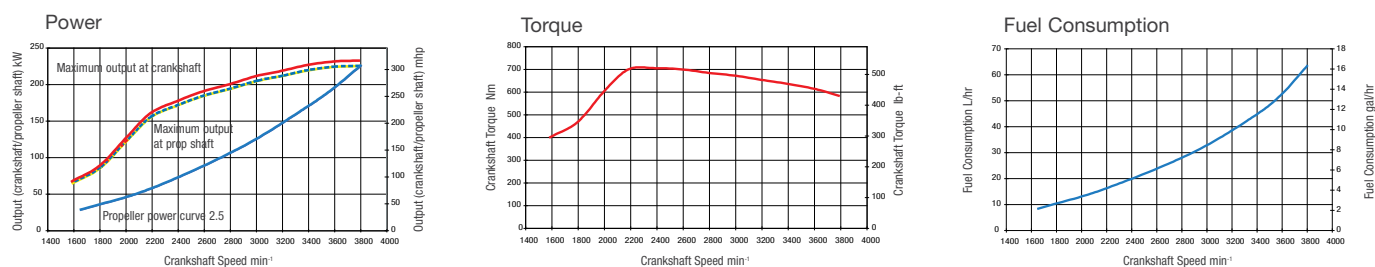
Technical data is according to ISO 8665: 2006/3046-1

**DIMENSIONS****Rear view****Right side view**

6LPA-STP2 with KMH50A marine gear



## PERFORMANCE CURVES



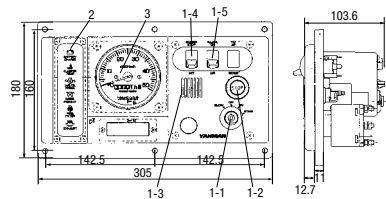
## MARINE GEARS / DRIVE\*

Model	KMH50A [down angle 8°]			ZF63A [down angle 8°]			
Type	Hydraulically Actuated Multi-Disc Clutch			Hydraulically Actuated Multi-Disc Clutch			
Dry weight**	51 kg [112 lbs]			44 kg [97 lbs]			
Reduction Ratio [fwd/rev]	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/rev]	2275	1784	1564	3115/3140	2436/2405	1863/1810	1429/1423
Direction of rotation (viewed from stern)	Clockwise or Counterclockwise			Counterclockwise			
Dry weight – engine & gear**	459 kg [1012 lbs]			452 kg [996 lbs]			
Length engine and gear/drive	1190 mm [46.9 in]			1205 mm [47.4 in]			

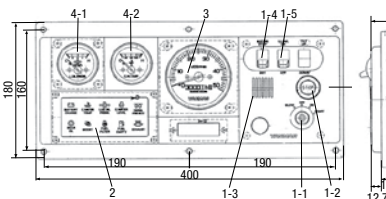
\* Other marine gearboxes and configurations available upon request. Contact your local supplier for more information. \*\* Dry weight includes cooler, brackets and damper disk.

## INSTRUMENT PANELS

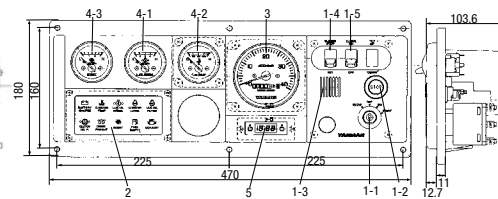
## New B-type Panel



## New C-type Panel



## New D-type Panel



Function	TYPE OF INSTRUMENT PANEL		
	DIGITAL B-TYPE PANEL	NEW C-TYPE PANEL	NEW D-TYPE PANEL
<b>1-Switch unit</b>			
1-1 Key switch for GLOW/OFF/ON/START [4-position switch]	Equipped on panel	Equipped on panel	Equipped on panel
1-2 Engine stop switch	Equipped on panel	Equipped on panel	Equipped on panel
1-3 Alarm buzzer [C.W. Temp., L.O. Pressure]	Equipped on panel	Equipped on panel	Equipped on panel
1-4 Alarm buzzer stop switch	Equipped on panel	Equipped on panel	Equipped on panel
1-5 Illumination switch for meters	Equipped on panel	Equipped on panel	Equipped on panel
<b>2-Alarm lamp unit</b>			
2-1 Battery not charging	Equipped on panel	Equipped on panel	Equipped on panel
2-2 C.W. high temperature	Equipped on panel	Equipped on panel	Equipped on panel
2-3 L.O. low pressure	Equipped on panel	Equipped on panel	Equipped on panel
2-4 F.O. drain separator	Equipped on panel	Equipped on panel	Equipped on panel
2-5 Sea water flow	Equipped on panel	Equipped on panel	Equipped on panel
2-6 C.W. level for fresh water tank	Not equipped on panel	Equipped on panel	Equipped on panel
2-7 Boost pressure high	Equipped on panel	Equipped on panel	Equipped on panel
<b>3-Tachometer with hour meter</b>			
	Equipped on panel	Equipped on panel	Equipped on panel
<b>4-Sub meter unit</b>			
4-1 L.O. pressure meter	Not equipped on panel	Equipped on panel	Equipped on panel
4-2 C.W. Temperature meter	Not equipped on panel	Equipped on panel	Equipped on panel
4-3 Boost meter [turbo]	Not equipped on panel	Not equipped on panel	Equipped on panel
<b>5 Quartz clock</b>			
	Not equipped on panel	Not equipped on panel	Equipped on panel

## ACCESSORIES

## Standard engine package

- Sensor for instrument panel [New B, C and D-type]
- Exhaust/water mixing elbow [L-type]
- Cooling water hoses
- Fuel water separator [integrated with fuel filter]
- Alternator 12V - 80A

## Optional accessories

- Flexible mounts [2 pcs]
- High-riser mixing elbow [instead of L-elbow]
- Analog instrument panels [New B, C and D-type]
- Dual station Y-harness
- Sensor for VDO instrument panels
- Control heads
- Extension wire harness [4m, 6m, 10m]
- Lub oil evacuation pump
- Air venting device for cooling water tank
- VDO instrumentation for main panel and fly bridge
- Dipstick for opposite side

NOTE: All data subject to change without notice. Text and illustrations are not binding.