

### 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 ltr   | [254 cu in]        |     |
| Bore x stroke                      | 94 mm x 100 mm  | [3.7 in x 3.94 in] |     |
| Cylinders                          | 6 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 flywheel side  |                    |     |
| Dry weight without gear            | 408 kg  | [899 lbs]          |     |
| Environmental                      | EU: RCD   | BSO II             | EMC |
|                                    | US: EPA Tier2   |                    |     |
|                                    | IMO: MARPOL 73/78 Annex VI  |                    |     |
| 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

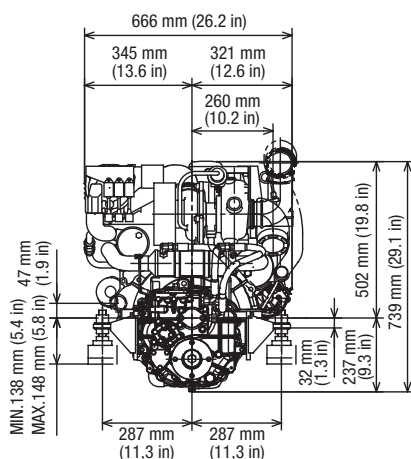
\* Fuel temperature 25°C at the inlet of the fuel injection pump [ISO 3046-1]

\*\* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]

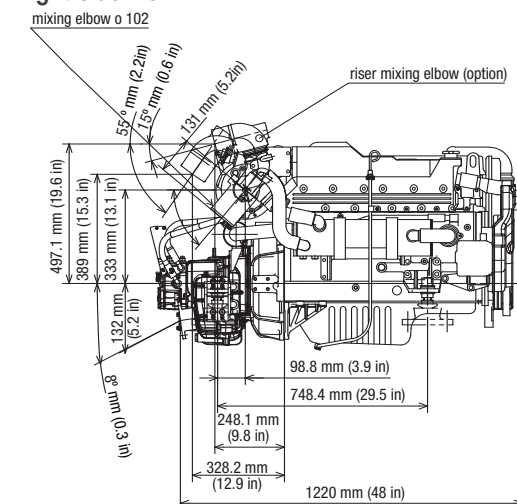
Technical data is according to ISO 8665: 2006/3046-1

**DIMENSIONS**

**Rear view**

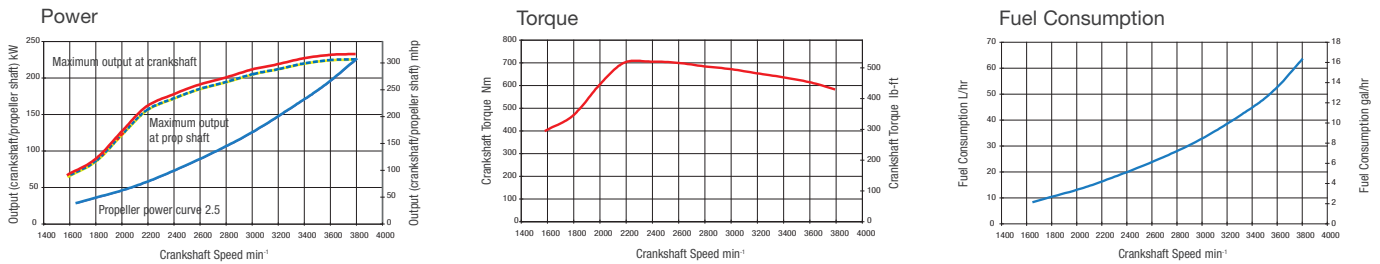


**Right side view**



6LPA-STP2 with KM2P-1 marine gear

## PERFORMANCE CURVES

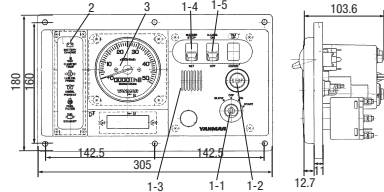


## MARINE GEARS / DRIVE

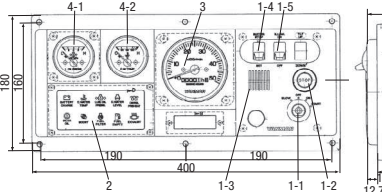
| Model                            | KMH50A                    |           |           | ZF63A                     |           |           |           |
|----------------------------------|---------------------------|-----------|-----------|---------------------------|-----------|-----------|-----------|
| 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            | Counterclockwise          |           |           | Counterclockwise          |           |           |           |
| [propeller shaft - fwd]          | viewed from flywheel side |           |           | 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]         |           |           |           |

## INSTRUMENT PANELS

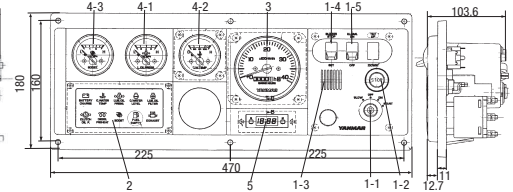
### New B-type Panel



### 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 |

## ACCESORIES

### 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 accesories

- 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.