



4LV Series - 230/250

| | | |
|------------------------------------|---|--------------------|
| Configuration | 4-stroke, vertical, water-cooled diesel engine | |
| Maximum output at crankshaft* | 169kW @3800 | [230 mhp@3800 rpm] |
| | 184kW @3800 | [250 mhp@3800 rpm] |
| Displacement | 2.755 L | [168 cu in] |
| Bore x stroke | 92 mm x 103.6 mm | [3.6 in x 4 in] |
| Cylinders | 4 in-line | |
| Combustion system | Direct injection with Denso common rail system | |
| Low idle rpm | 700 rpm | |
| Aspiration | Turbocharger with charge-air cooler | |
| Starting system | Electric starting 12V – 2 kW | |
| Alternator | Denso 12V - 130A | |
| Cooling system | Fresh water cooling by centrifugal fresh water pump | |
| | Sea water cooling by rubber impeller seawater pump | |
| Lubrication system | Enclosed, forced lubricating system | |
| Direction of rotation [crankshaft] | Counterclockwise viewed from stern | |
| Dry weight without gear** | 332 kg | [732 lbs] |
| Emission compliance | EU: RCD 2, BSO II, EMC | US: EPA Tier 3 |
| Engine mounting | Rubber type flexible mounting | |

NOTE:Fuel condition: Density at 15°C = 0.84 g/cm³; 1 kW = 1.3596 mhp = 1.3410 HP

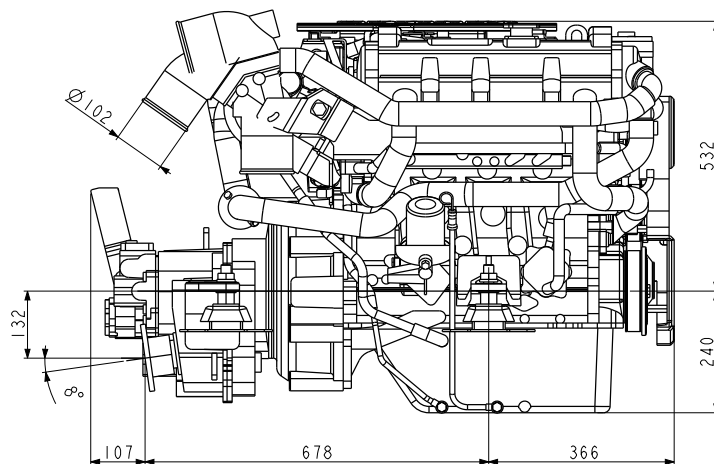
* Fuel temperature 40°C at the inlet of the fuel injection pump [ISO 8665: 2006]

** Including damper disk

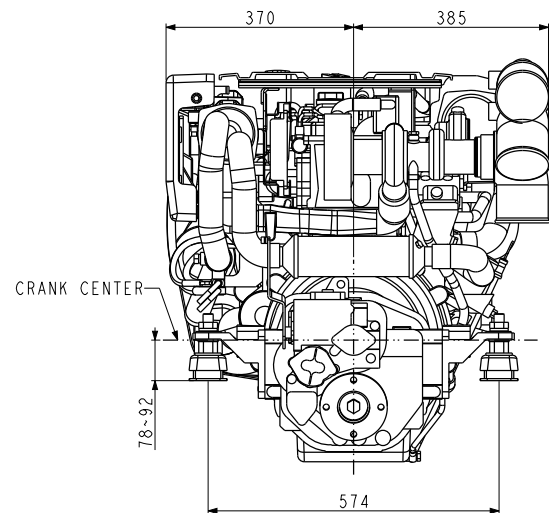
Technical data is according to ISO 8665: 2006

DIMENSIONS

Right side view



Rear view

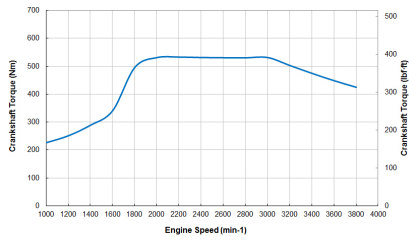


4LV230 with KMH50A marine gear

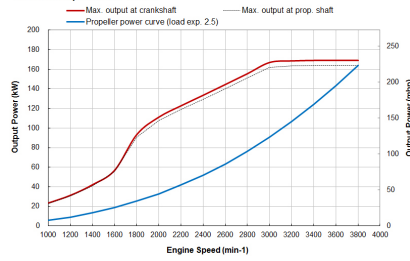


PERFORMANCE CURVES

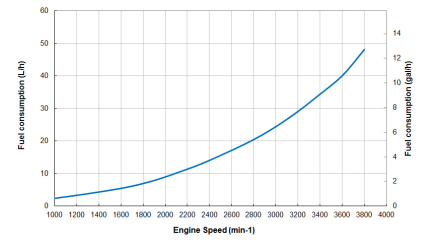
4LV230 Torque curve



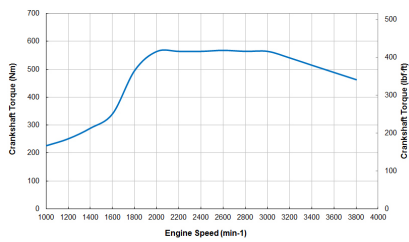
4LV230 Output Power curve



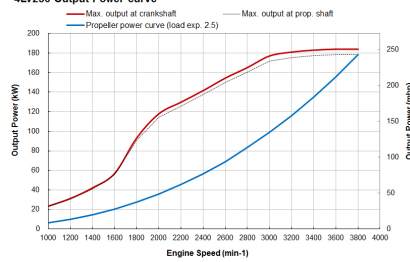
4LV230 Fuel consumption (load exp. 2.5)



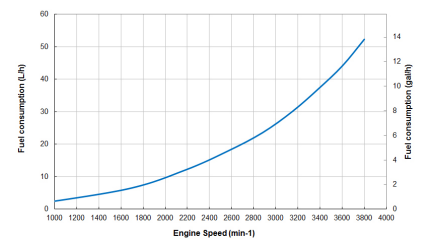
4LV250 Torque curve



4LV250 Output Power curve



4LV250 Fuel consumption (load exp. 2.5)



MARINE GEARS*

| Model | KMH50A [down angle: 8°] | | | KMH50V [V-drive, angle: 12°] | | | |
|---|------------------------------|-----------|-----------|------------------------------|-----------|-----------|-----------|
| Type | Hydraulic, multi disk clutch | | | Hydraulic, multi disk clutch | | | |
| Dry Weight** | 52 kg [115 lbs] | | | 75 kg [165 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 | 2.47/2.47 |
| Propeller speed [fwd/asn] | 2275/2275 | 1784/1784 | 1564/1564 | 3115/3115 | 2405/2405 | 1827/1827 | 1538/1538 |
| Direction of rotation [viewed from stern] | Clockwise & counterclockwise | | | Clockwise & counterclockwise | | | |
| Dry weight - engine & gear | 384 kg [846 lbs] | | | 407 kg [897 lbs] | | | |
| Length engine and gear/drive | 1151 mm [45.3 in] | | | 1151 mm [45.3 in] | | | |

*For other configurations, consult your local Yanmar distributor.
**Dry weight includes cooler and brackets

ACCESSORIES

Standard Package

- Exhaust mixing elbow [L-type]
- Alternator 12V - 130A
- B25 panel
- Oil sensor for instrument panel
- Mechanical throttle sensor
- Set of flexible engine mounts
- Fresh water expansion tank
- Belt safety cover
- Engine topcover for protection
- Operation manual

Optional

- High-riser mixing elbow [instead of L-elbow]
- Secondary alternator 12V - 150A or 24V - 80A
- Multistage secondary alternator 12V - 130A or 24V - 110A
- Hot water connection
- Opposite dipstick
- Fuel pre-filter with water separator
- Extension harness [3m, 5m, 10m]
- C35 panel
- Sidemount control head
- VC10 Vessel Control System
- Second station
- NMEA2000 Engine monitoring system

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