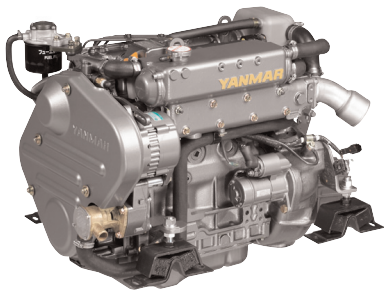


# Yanmar type 3JH5E

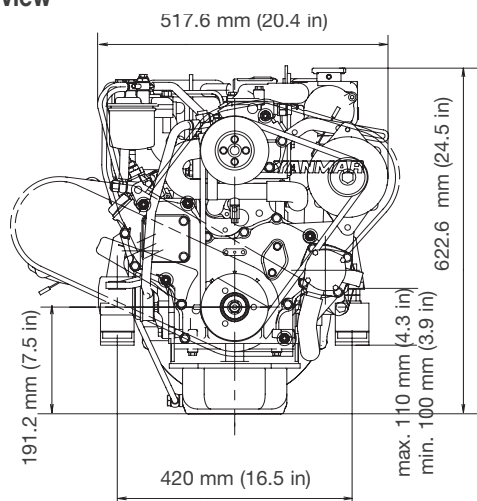


<b>Configuration</b>	4-stroke, vertical, water cooled diesel engine
<b>Maximum output at crankshaft</b>	28.7 kW (38,5 mhp) / 3000 rpm
<b>Continuous rating output at crankshaft</b>	26,1 kW (35 mhp) / 2907 rpm
<b>Displacement</b>	1,642 L (100 cu in)
<b>Bore x stroke</b>	88 mm x 90 mm (3.46 in x 3.54 in)
<b>Cylinders</b>	3 in line
<b>Combustion system</b>	Direct injection
<b>Aspiration</b>	Natural aspiration
<b>Starting system</b>	Electric starting 12 V - 1.4 kW
<b>Alternator</b>	12 V - 80 A
<b>Cooling system</b>	Fresh water cooling by centrifugal fresh water pump and rubber impeller sea water pump
<b>Lubrication system</b>	Enclosed, forced lubricating system
<b>Direction of rotation (crankshaft)</b>	Counter clockwise viewed from flywheel side
<b>Dry weight without gear</b>	173 kg (381 lbs)
<b>Environmental</b>	EU: RCD / US: EPA Tier3
<b>Engine mounting</b>	Rubber type flexible mounting

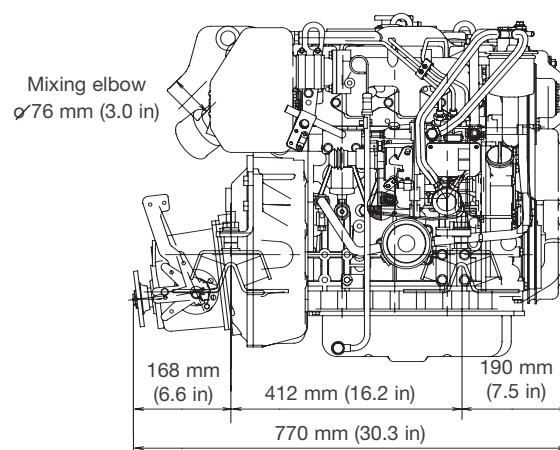
NOTE: Fuel condition: Density at 15°C = 0.84 g/cm<sup>3</sup>  
 Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665 : 2006)

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

## Front view

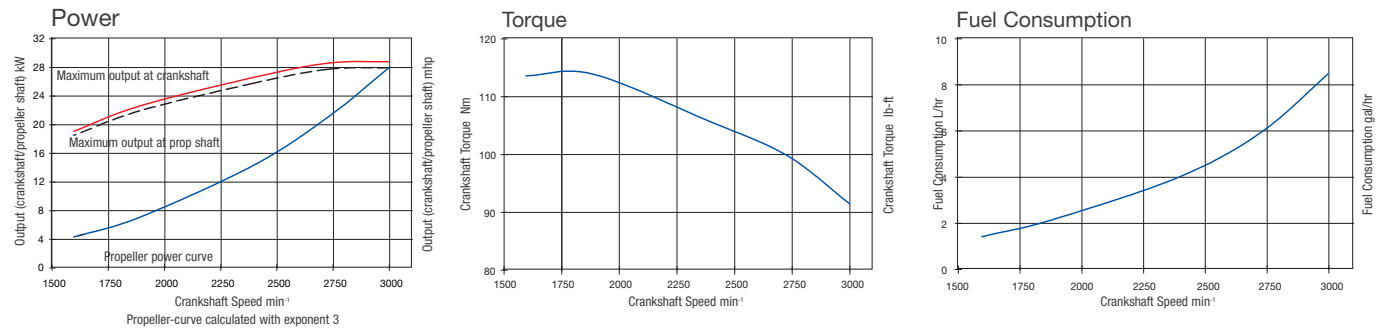


## Right side view



3JH5E with KM35A marine gear

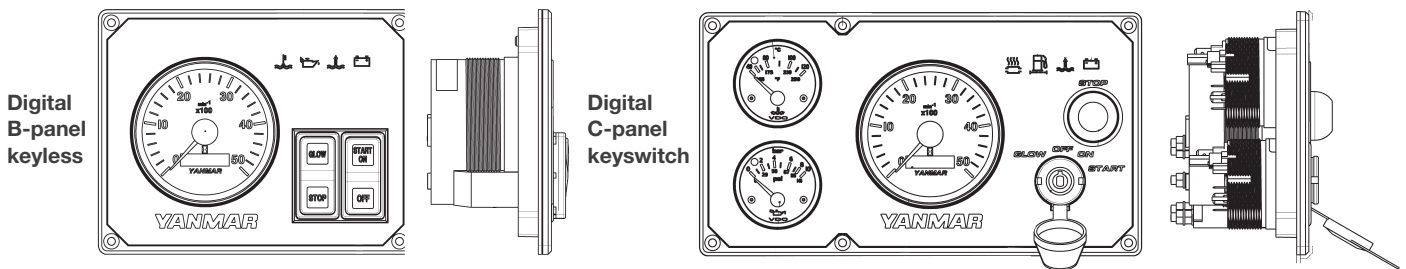
## Performance Curves (Output is according ISO 8665)



## Marine Gears/Drive

Model	KM35P		KM35A (down angle: 7deg)		Saildrive (SD50)
Type	Mechanical cone clutch		Mechanical cone clutch		Mechanical cone clutch
Dry weight	12 kg (27 lbs)		13 kg (29 lbs)		40 kg (88 lbs)
Reduction ratio (fwd/asn)	2.36/3.16	2.61/3.16	2.33/3.04	2.64/3.04	2.32/2.32
Propeller speed(fwd/asn)	1271/949	1149/949	1288/987	1136/987	1293/1293
Direction of rotation	Clockwise viewed from the stern				Clockwise & counter clockwise viewed from flywheel side
Dry weight engine and gear/drive	185 kg (408 lbs)		186 kg (410 lbs)		213 kg (470 lbs)
Length engine and gear/drive	777 mm (31 in)		776 mm (31 in)		973 mm (38 in)

## Instrument Panels



Digital B-panel and C-panel with keyswitch	Digital B-panel and C-panel keyless
Keyswitch	Sealed rocker switch for engine on/start
Stop Button	Sealed rocker switch for glow function
Tachometer with hour	Tachometer with hour
Indication (display)	Indication (display)
Audible alarm	Audible alarm
Alarm lights	Alarm lights
Battery low charge	Battery low charge
Coolant High temperature	Coolant High temperature
Lubricating oil low pressure	Lubricating oil low pressure
Water in saildrive seal	Water in saildrive seal
Extra for all C-panels: Coolant temperature gauge, Lubricating oil pressure gauge	

## Accessories

### Standard Features

- Digital B-panel with keyswitch
- 4 M wiring harness
- Operation manual
- Set of flexible engine mounts
- Exhaust mixing elbow (L-type)
- V-belt safety cover
- Fresh water expansion tank
- Alternator 12 V - 80 A
- Electric stop solenoid

### Optional

- Digital B panel keyless
- Digital C panel with key switch or key less
- Second Alternator 12V80A, 12V130A or 24V75A
- High riser mixing Elbow
- 6M, 10M Extension Wire harness
- Hot water kit, with or without cocks
- Second station harness