



## The lightest and most powerful V6 outboard in its class

Whether you enjoy the thrill of water sports or just relaxing on your boat, choose the engine that helps you get more out of your time on the water.

Every engine in our range uses Yamaha's latest marine technologies, engine layouts and ingenious intake and exhaust systems - and our 4-stroke development has been so successful because, rather than just adapting ordinary automotive engines for the water, we design and build our marine-specification 4-strokes from scratch.

Without compromising on power, performance or usability, these specially designed engines also help preserve the environment with the use of pioneering clean-burn technologies.

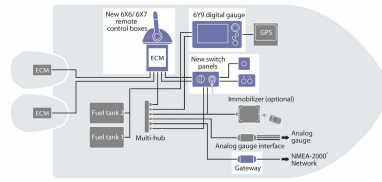


- The largest displacement with the lightest weight
- Precise digital electronic throttle/shift control
- 24-valve DOHC with Electronic Fuel Injection (EFI)
- One-touch 'Start/Stop' control
- Digital Network Gauges (conventional and premium)
- Engine synchronisation (twin/triple installations)
- Shift Dampener System (SDS) for smooth shifting
- Variable trolling RPM
- High output alternator for the engine class (70A)
- Optional Tilt Limiter system
- Yamaha Customer Outboard Protection (Y-COP) option
- Optional Dual Battery Charging system



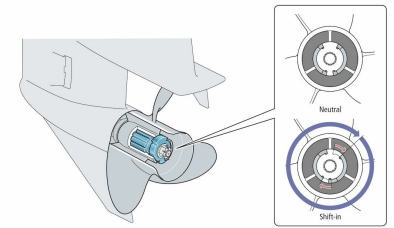
### One-touch 'Start/Stop' control for multiple engines

Just pushing a single button allows the engines to be started or stopped instantly in multi-engine installations. The stylish and practical one-touch 'Start/Stop' control switch panel is used in conjunction with the main key switch.



### Digital Network System II

The Yamaha Digital Network System II is available for all these engines. It features the latest 6Y9 gauges, a high-resolution colour LCD display, a choice of push-button 'Start/Stop' panels, control boxes, accessories, and an NMEA-2000® gateway. This advanced system can easily be configured for single, twin or triple engine applications.



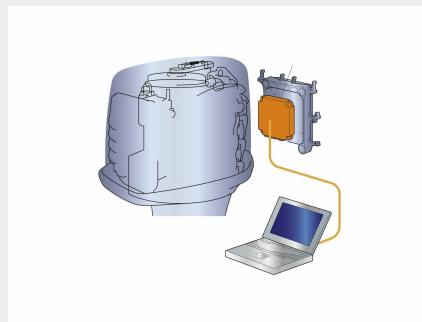
### SDS (Shift Dampener System)

First introduced for our larger V8 & V6 models, Yamaha's patented Shift Dampener System (SDS) is a great feature that significantly reduces the 'clunk' sound normally associated with moving between gears. A splined rubber hub and aft washer absorb noise and vibration, in a carefully engineered solution that gives smoother, quieter gear shifts.



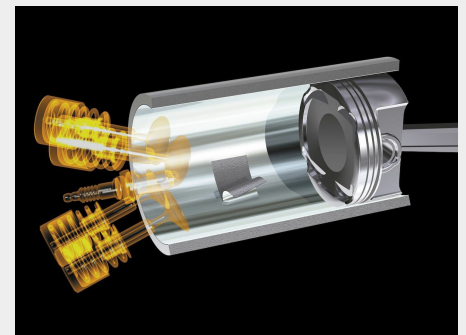
### Yamaha Customer Outboard Protection (Y-COP) option

The optional Y-COP immobiliser system is simple, easy to use and highly effective – a neat and simple remote control locks and unlocks the engine at the push of a button. This prevents your outboard engine being taken for any unauthorised joyrides, offering you peace of mind when leaving your boat unattended.



### Micro-computer ECM (Engine Control Module)

This micro-computer is the 'brain' hidden inside your engine. It constantly monitors data inputs and settings, ensuring smooth running and optimised ignition timings – as well as automatically activating warning lamps and protection systems. A handy computer access port allows an authorised Yamaha dealer to diagnose any problems.



### Latest cylinder technology - large displacement with low weight

The Plasma fusion process on the cylinder walls is 60% harder than steel, but this advanced technology also offers lower weight, better cooling and less friction. The result is the largest displacement engine in the industry, yet with the lowest weight.

<b>Engine</b>	
Engine type	4-stroke
Displacement	4169 cm <sup>3</sup>
No. of cylinders/Configuration	V6 (60°), 24-valve, DOHC with VCT
Bore x stroke	96.0 mm x 96.0 mm
Prop shaft output at mid range	183.8 / 5,500 rpm
Full Throttle Operating Range	5,000 - 6,000 rpm
Lubrication system	Wet sump
Fuel Induction System	EFI
Ignition / advance system	TCI
Starter system	Electric with Prime Start™
Gear ratio	1.75 (21:12)
<b>Dimensions</b>	
Transom height	X643U:770mm
Weight with propeller	F250DETX: 260.0kg,FL250DETX: 260.0kg,F250DETU: 268.0kg,FL250DETU: 268.0
Fuel tank capacity	-
Oil pan capacity	6.3litres
<b>Additional Features</b>	
Control	Drive By Wire (DBW)
Trim & Tilt method	Power Trim & Tilt
Light coil / Alternator Output	12V -70Awith rectifier/regulator
Engine immobilizer	YCOP optional
Propeller	Optional
Counter Rotation Model	Available (ETX, ETU)
Variable Trolling Speed	With DN Gauges or m-f tiller handle
Dual Battery Charging System	Optional
Shift Dampener System (SDS)	Optional
Remark	The kW data in this sheet is based on the ICOMIA 28 standard, measured at the prop shaft

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