



## Technology the world trusts

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 marine engines also help preserve the environment with the use of pioneering clean-burn technologies.



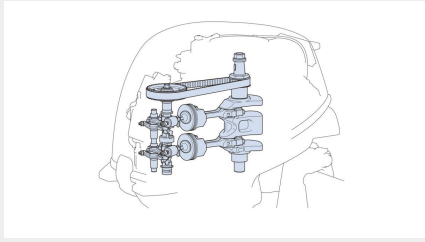
- Unique and economical power-to-weight performance
- New tough and solid one-piece top cowling
- New battery-less EFI system for easy starting
- Manual, electric and manual/electric start options
- VTS (Variable Trolling Speed) option
- Slower-than-normal idle speed with VTS option
- Compatible with Yamaha Digital Network Gauges
- Big-engine' feature - Power Tilt option
- Exclusive Y-COP immobiliser security option
- Multi-function tiller handle option
- Single-lever steering friction (Tiller model)
- High-output alternator for extra starting power

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The new F20 joins our growing family of new generation portables and shares their amazing power and smoothness. Open the throttle and you'll feel the effect of Yamaha's innovative technologies at work, delivering big-engine features, along with unique power-to-weight performance and outstanding economy.

The specification includes battery-less EFI and full compatibility with our Digital Network Gauges, as well as convenient new resting pads and carry handles.

With single-lever steering friction adjustment, wide-span motor mount, high-output alternator and options of Variable Trolling Speed, Y-COP Security and Power Tilt, the F20 is a great choice for a wide range of tasks.



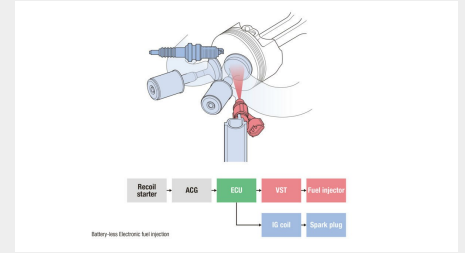
## Unique power-to-weight performance

This latest-generation twin cylinder, 4-valve model has a true 'big-engine' feel and delivers unprecedented power for such a conveniently light and portable unit. Easy starting and smooth running are assured by the battery-less EFI system and a choice of electric, manual or electric/manual starting options are available.



## Latest, one-piece top cowling design

Instantly recognisable as a brand new Yamaha, this smart engine features our latest one-piece cowling, with stylish graphics and a genuinely 'solid' feel that any owner will appreciate. A cleverly designed water-draining air intake duct is built into the cowling too.



## Easy starting, security - and VTS

Starting - even from cold or after storage - really is as easy as starting a car. Exclusive to Yamaha, the combination of our legendary PrimeStart™ and new battery-less EFI systems ensures that your engine fires up first time, every time. What's more, you can choose VTS (Variable Trolling Speed) and Y-COP immobiliser security options too.



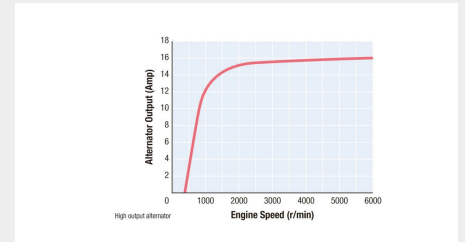
## Now compatible with Yamaha's Digital Network Gauges

You'll find the new 20hp very easy to handle and comfortable to drive, thanks to its many new features. Remote control models for example, are fully compatible with our advanced Digital Network system, which offers the driver a comprehensive selection of information, as well as a more precise and relaxing level of control.



## Large multi-function tiller handle option

This great option brings all the engine controls neatly within reach of the driver and provides an even larger tiller for comfortable steering, handling and manoeuvring. Whether pottering around the marina or flying along at the higher speeds this remarkable engine can deliver, it makes the 20hp even more enjoyable to own and use.



## High-output alternator - keeps the power coming

The 20hp will be put to a wide variety of tasks, from fishing at night to coastal cruising, so its high-output alternator is a comforting feature, ensuring that power should always be available to start the engine - even after prolonged periods of idling or if you've been running at low revs and using numerous accessories.

<b>Engine</b>	
Engine type	4-stroke
Displacement	432 cm <sup>3</sup>
No. of cylinders/Configuration	2/In-line, SOHC
Bore x stroke	65.0 mm x 65.1 mm
Prop shaft output at mid range	14.7 / 5,500 rpm
Full Throttle Operating Range	5,000 - 6,000 rpm
Lubrication system	Wet sump
Fuel Induction System	EFI
Ignition / advance system	CDI
Starter system	Electric/ Manual (WH), Manual (MH), Electric (E, EP)
Gear ratio	2.08 (27:13)

<b>Dimensions</b>	
Transom height	S: 429mm, L:556mm
Fuel tank capacity	separate, 25litres
Oil pan capacity	1.1litres
Weight without propeller	56kg - 63kg

<b>Additional Features</b>	
Control	Remote control (E, EP), Tiller handle (MH + WH)
Trim & Tilt method	Power Tilt (EP), Manual Tilt (MH, E + WH)
Light coil / Alternator Output	12V -16A with rectifier/regulator
Engine immobilizer	YCOP optional
Propeller	Optional (E, EP), Included (MH, WH)
Variable Trolling Speed	With DN Gauges or m-f tiller handle
Digital Network Gauge (6Y8/6YC)	Optional
Steering	Tiller handle, Remote Control
Remark	The kW data in this sheet is based on the ICOMIA 28 standard, measured at the prop shaft

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