# MARINE DIESEL ENGINES

PLEASURE-CRAFT POWER

2GM20F(V) 13.4kW(18.2hp)

# Introducing the SUPER-POWERED version of our popular 2GMF

**Ups Power, Stays Trim** 

We've put more punch into our popular 2GM and kept its ideal proportions in creating the new 2GM20F. Power jumps by 20%, giving an extra surge to carry the 2GM20F into a whole lot wider range of boats. Boat owners will get more from their motor, without getting more motor, because in size and weight it's practically the same, only the flywheel is bigger for greater inertia, easier starting.

Smooth, Clean and Quiet

Comparative tests and actual user reports prove the GM series are more acceptable inboards than equivalent engines. The greater piston bore of the 2GM20F delivers more boost yet still excels in quiet and smooth running from idling to top revs. Emission levels are the lowest in the history of this class of engine, and the 2GM20F exhaust is soot-free.

#### **More Efficient Electrics**

The alternator is highly uprated to 55 amps, providing ample current for auxiliary electric power from the battery and a strong source for charging.

**Greater Power from the Prop** 

With the increase in horsepower the builder can equip the boat with a larger propeller or a more dynamic pitch to give extra thrust without extra bed space or redesigning.

Fresh Water Cooling Designed In

With a fresh water cooling system as an integrated part of this engine it becomes more durable and can readily be adapted for an on-board hot water system.

V-Drive Gear

Where fore-aft space is limited this new V-Drive Marine Gear KM3V compactly and neatly solves the problem. It has a drive angle of 15° and a choice of reduction gears—2.36 2.61, and 3.20.





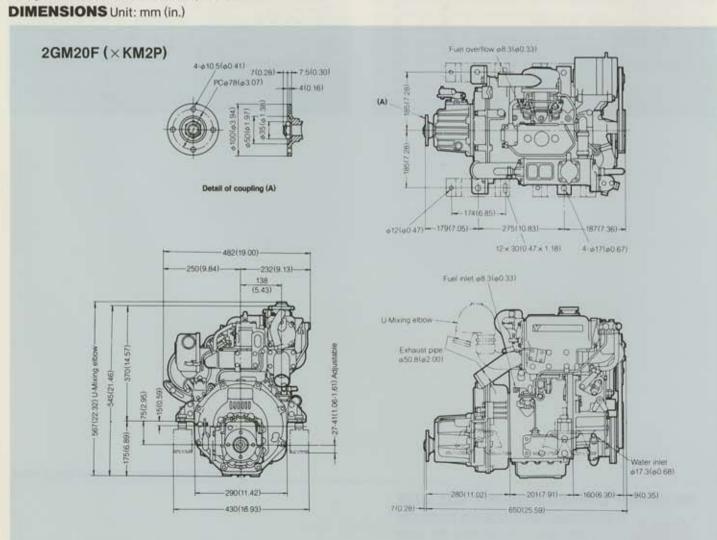




## **SPECIFICATIONS**

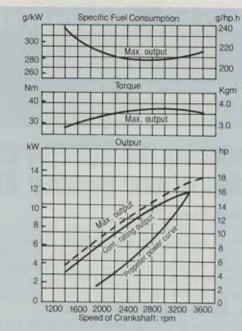
Model			2GM20F
Configuration			4-s
Number of cylinders			
Bore × stroke	mm (in.)		
Displacement	ℓ (cu.in.)		
Continuous rating output at cranks	shaft kW/rpm (hp/rpm)		
Maximum output at crankshaft	kW/rpm (hp/rpm)		
Combustion system		<u> </u>	Sp
Starting system			Electrical (
Cooling system			F
Lubrication system			
	Model		KM2P
Dedication and supplies and	Туре		С
Reduction and reversing gear	Reduction ratio (Ahead/Astern)	2.21/3.06	2.62/3.06
	Propeller speed at continuous rating (Ahead) rpm	1540	1298
Direction of rotation	Crankshaft	Counterclockwise, viewe	
	Propeller shaft		
Dry weight	kg (lbs)		114 (251)

Rating condition: ISO-3046/1 [Note]: hp≒0.7355kW



GM20F			2GM20FV	
4-str	roke, vertical, water	er cooled diesel en	gine	1
		2		
	75×72 (2	.95×2.83)		
	0.636	(38.81)	THEFT	
	11.8/3400	(16.0/3400)		
	13.4/3600	(18.2/3600)		
Spe	cial swirl type pre	-combustion chan	nber	
Electrical (D	.C. 12V-1.0kW start	ing motor, 12V-55A	Alternator)	
Fr	esh water cooling	with heat exchang	ger	
	Forced lubrication	with trochoid pump		
KM2P		KM3V (V-drive)		
Cor	nstant mesh gear v	vith servo-cone clu	tch	
62/3.06	3.22/3.06	2.36/3.16	2.61/3.16	3.20/3.16
1298	1055	1441	1303	1063
ise, viewed from stern		Clockwise, viewed from stern		
	Clockwise, view	wed from stern		
14 (251)		125 (278)		

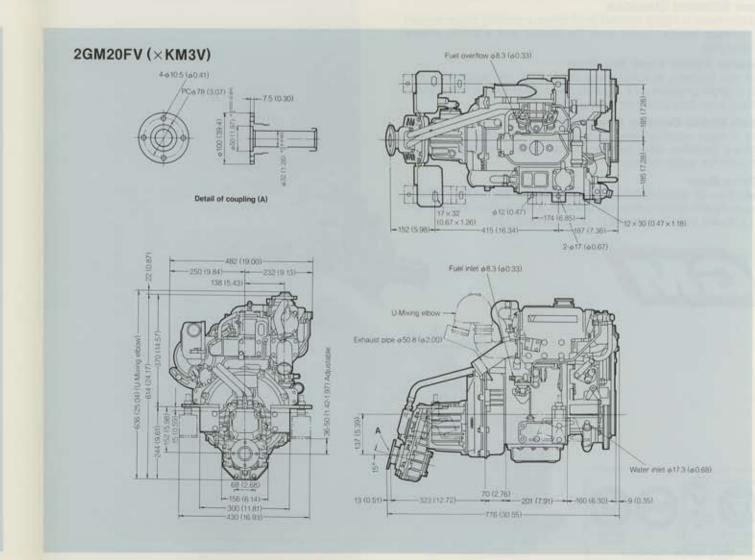
### **PERFORMANCE CURVES**



#### Note:

- 1. Above data are measured at crankshaft and show the
- average performance as tested at our laboratory.

  2. Power loss of the marine gears are as follows:
  KM2P-1.5%, KM3V-2%.



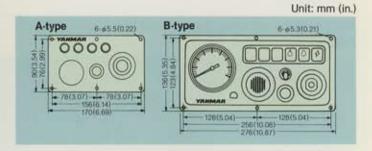
**ACCESSORIES** 

Standard: ○ Option: ▲

Item	Name		Remarks
Installation	Flexible engine mount	0	
	Propeller shaft half coupling (Slit type)	A	φ20
	Propeller shaft half coupling (Taper type)	_ A	φ25 or 28
	Propeller shaft half coupling (Straight rough bore)	A	φ16
Fuel	Fuel tank with pipe (30#/2m)		
Cooling	Exhaust water mixing elbow, L-type	0	
	Exhaust water mixing elbow, U-type		
	Kingston cock	A	
Lubrication	Lube oil evacuation pump	A	
Starting and stopping	Engine stop cable (Manual)	A	3m
	Alternator, 12V	A	35A
	Electric type bilge pump, 12V		
	A-type instrument panel		
Electrical & Instrumentation	B-type instrument panel		
Electrical & Instrumentation	Extension wire harness	_ A	3m
	Battery switch	A	
	Two pole wire harness for Eng.		
	Two pole alarm switch ass'y for A & B-type		
Control	Push-pull type remote control cable, 2pcs/unit. (MORSE: 33C)	_ A	4m
	Side-mount type single control head. (MORSE: MV)	A	
	Top-mount type single control head. (MORSE: MT2)		
	Spare parts kit		
Others	Special overhauling tools (for engine)		
	Special overhauling tools (for marine gear)	_	

Available: Not available: -

			A-type	B-type
1.	Key switch		•	•
2	Push button switch for starting			
3.	Alarm buzzer	C.W. temp., L.O. pressure	•	
4.	Alarm lamps	Battery not charging	•	
		C.W. high temperature	•	•
		L.O. low pressure	•	•
5.	Tachometer		-	•
6.	Tachometer illumination switch			



Note: All data subject to alteration without notice.