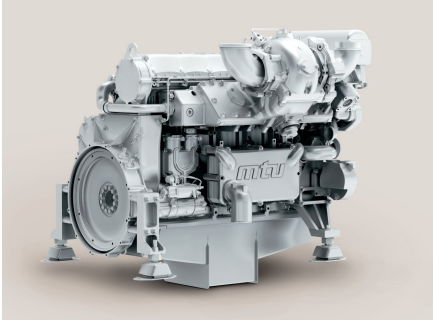


Marine

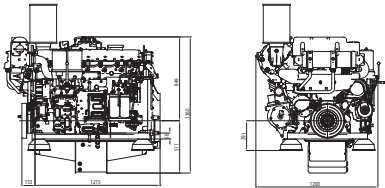
# Diesel Engines 6R 1600 M20F/S

for on-board power generation and diesel-electric drives (3A)  
- 50/60 Hz



## Dimensions and Masses

6R 1600 M	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
M20F & S	1560x1185x1268 (61.4x46.7x49.9)	1448 (3192.3)



	50 Hz	60 Hz
<b>Engine model</b>	6R 1600 M20F	6R 1600 M20S
<b>Application</b>	3A	3A
<b>Rated power ICXN</b> kW (bhp)	269 (361)	323 (433)
<b>Speed</b> rpm	1500	1800
Optimization of exhaust emissions <sup>1)</sup>	IMO II	IMO II/EPA Tier 3 C
<b>Engine main data</b>		
No. of cylinders	6	
Bore/Stroke                      mm (in)	122/150 (4.8/5.9)	
Displacement, total            l (cu in)	10.5 (641)	

Application	Power definition	
3A	Continuous operation, unrestricted	Loadfactor: 100%, Operating hours: unrestricted, Overload: 10 % capability (ICXN)

<sup>1)</sup> IMO - International Maritime Organization (MARPOL)

EPA - US Marine Regulation 40 CFR 94



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Standard Equipment	
Starting system	Electric starter motor 24V, 2 pole
Oil system	Gear driven lube oil pump, switchable oil filter, lube oil extraction pump centrifugal, lube oil heat exchanger, closed crankcase ventilation
Fuel system	Fuel delivery pump, duplex lube fuel filter with diverter valve, common rail fuel injection system with high-pressure pump, pressure accumulator and electronic fuel injection, jacketed HP fuel lines, flame- proof hose lines, leak-off fuel tank level monitoring, fuel conditioning system with water separator
Cooling system	Engine mounted coolant expansion tank, belt driven coolant circulation pump
Combustion air system	Engine coolant temperature-controlled intercooler, turbocharging with 1 water-cooled turbocharger, on-engine air filters
Exhaust system	Triple-walled, liquid-cooled, on-engine exhaust manifolds, vertical discharge, exhaust bellow
Mounting system	Rigid Engine Mounting
Auxiliary PTO	Charging generator, 55A, 28V, 2 pole
Engine management system	Engine control and monitoring system (ECU 9) engine interface module - EiM, engine mounted
Engine safety system	The scope of delivery for the engine fulfils SOLAS requirements for admissible surface temperature and shielding of fuel and lube oil lines

Optional Equipment	
Starting system	Compressed air starter motor 4 bar
Connecting hardware	Connecting hardware for fuel & cooling water
Fuel System	Switchable pre-filter with water separator
Cooling system	Engine mounted seawater heat exchanger and seawater pump
Engine Mounting	4 point rigid engine mounting, high resilient 4 point engine mounting
Classification	ABS, BV, CCS, DNV, GL, KR, LR, NK, RINA including necessary extensions to scope of supply

- > Power definition according ISO 3046-ICXN
- > Intake air temperature: 45°C/Sea water temperature: 32°C
- > Design power for genset drive per DIN 6280/ISO 8528

Specifications are subject to change without notice. All dimensions are approximate. For complete information refer to installations drawing. For further information consult your MTU distributor/dealer.