

# YC6TD

## MARINE ENGINE

441-480kW (600-655Ps)

### Mode

#### Main engine

YC6TD600L-C20	441kW(600Ps)@15 00rpm
YC6TD650L-C20	478kW(650Ps)@18 00rpm

#### Craft engine

YC6TD600L-C20	441kW(600Ps)@1500rpm
YC6TD650L-C20	478kW(650Ps)@18 00rpm

#### Auxiliary engine

YC6TD655L-C20	480kW(655Ps)@15 00rpm
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Images shown may not reflect actual engines

## SPECIFICATION

### L-6,4-Stroke-Cycle-Diesel

Emissions	IMO/EPA Tier2
Displacement	19.598L
Compression ratio	14:1
Rated engine speed	1500-1800rpm
Bore	152mm
Stroke	180mm
Firing order	1-5-3-6-2-4
Aspiration	TurbochargedIntercooled
Governor	Electronic control
CoolingSystem	Fresh water forced closed circulation cooling
Weight ,Net Dry(approx)	2,200kg
Refill Capacity	
Cooling System (engine only)	64L
Lube Oil System(refill)	52L
Oil Change Interval	250hrs
	CF-40 grade or above
Rotation	Counterclockwise(from flywheel end)
Flywheel and Flywheel housing	
Flywheel housing	SAENo.1
Flywheel	SAENo.14
Flywheel Teeth	124
Maximum Exhaust Back Pressure	10kPa
Dimension(LxWxH)	2108x1125x1415

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441-480kW  
600-655Ps

## STANDARD ENGINE EQUIPMENT

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### Air Inlet System

- Intercooler- sea water, corrosion resistant
- Air cleaner
- Turbocharger

### Exhaust System

- Water cooling exhaust pipe
- Turbocharger
- Dry Elbow
- Flexible fitting, exhaust corrugated pipe

### Cooling System

- Thermostat
- Belt-driven centrifugal sea water pump
- Belt -driven centrifugal water pump
- Heat exchanger with expansion tank
- Engine oil cooler

### Lube System

- Oil pump, gear driven
- Oil cooler
- Oil filter
- Bypass centrifugal oil filter
- Oil filler
- Dipstick
- Crankcase breather
- Deep center sump oil pan

### Fuel System

- Fuel filter
- Oil water separator
- Fuel pump
- Fuel transfer pump
- Fuel leakage gathering tank

### Control System

- ECU
- Instrumentation(Digital LCD type)  
engine speed and hours  
engine oil pressure and temperature;  
engine jacket water temperature;  
on/off key switch;  
emergency stop button;  
over speed shutdown and remote stop notification lights
- Remote meter parts (Digital LCD type)
- 25m remote meter wiring harness

### Starting/ Charging System

- Electronic starting motors(24V/7.5kW)
- Charging alternator(28V/35A)

### Certification

- ISO Certification  
Factory-designed systems built at Yuchai  
ISO/TS16949:2009 certified facilities

### General

- Crankshaft vibration damper
- Crankshaft pulley
- Lifting eyes
- Front support leg ,Rear support leg
- Tool box
- Workshop manual
- Parts catalogue
- Engine protective cover for shipping

## OPTIONAL EQUIPMENT

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### Lube System

- Manual sump pump (use for removing waste oil)

### Control System

- The optional remote meter wiring harness length (35/45m)

### Starting/ Charging System

- Air starting motors

### Certification

- Emissions Certification  
IMO certifications for CCS
- Engine Certification  
CCS

### General

- Fumigation packing box (compulsory for export)