

YC6TD1000-D30

Prime power: 668 kW @ 1500 r/min

Standby power: 735 kW @ 1500 r/min

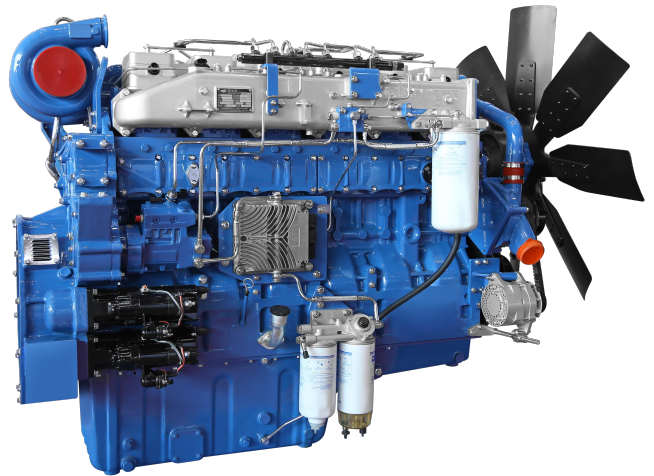
Emission standard to be followed:

GB 20891-2014 China III

Ver. No.: 2017V02 Implemented on 2017-08-01

Introduction of engine model

YC6TD1000-D30 engine is independently developed by Yuchai in combination with the advanced technology of large engines at home and abroad. It is equipped with high-pressure common rail system, four-valve, turbocharger and intercooler, and is optimized and verified through Yuchai's advanced combustion development technology, featuring energy saving, high efficiency, high reliability, strong loading capacity and good maintainability.



(Image shown may not reflect actual engine)

Product features

- ◆ Four-valve design with sufficient air intake, intermediate injector with full fuel-air mixing and sufficient combustion.
- ◆ Mature turbocharger and intercooler technology, ensuring the sufficient and stable air intake of each load, and wide range of economic fuel consumption.
- ◆ High injection pressure, good atomization, sufficient combustion, high power density and light weight.
- ◆ Compliance with China III emission standard, imported ECU, high-pressure common rail system, and large potential for emission upgrade.
- ◆ The cylinder block of netted reinforcement structure, and crankshaft connecting rod of high strength alloy, ensuring high reliability.
- ◆ The parts with good versatility, high degree of serialization, one-cylinder and one-cover structure, and low comprehensive maintenance costs.

Product service

- ◆ Service: Yuchai has established the service network that has the largest scale, the smallest service radius, the longest "repair, return, replacement" mileage and the shortest response time in the industry, and has established 49 offices around the world, including 14 overseas offices covering Europe, Africa and South America and so on. In addition, Yuchai has established 108 overseas service agents, more than 3,000 service stations, more than 5,000 parts sales outlets and more than 100 electronic control service engineers available to provide satisfactory service for customers.

24h global service hotline: +86 95098.

Engine speed	Work type	Standard alternator set output		Engine power			
				Total power		Net power	
r/min		kVA	kW	kW	Ps	kW	Ps
1500	Prime	750	600	668	909	653	885
	Standby	825	660	735	1000	720	976

Engine load	1500 r/min	
	g/ (kW·h)	L/h
Standby power	212.6	187.9
Prime power	208.0	166.6
75% prime power	207.4	124.6
50% prime power	210.3	84.2

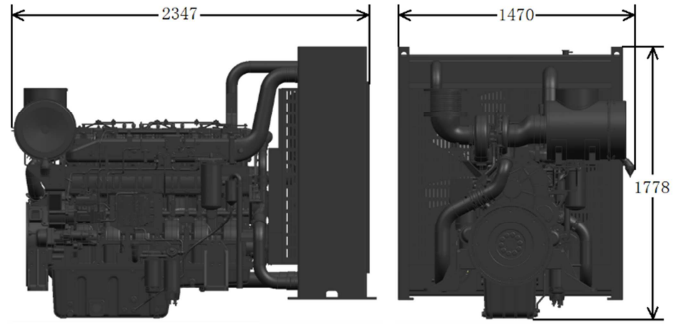
Note: The diesel density should be 0.835kg/L.

Technical parameters

PatternVertical, inline, water cooled, four-stroke
 Air intake type.... Exhaust gas turbocharged, air-air intercooled
 Combustion chamber form... ..Direct injection ω type
 Number of cylinders - cylinder bore × stroke... ..6-152×180mm
 Number of single cylinder valves4
 Total piston displacement19.6L
 Compression ratio.....14:1
 Cylinder type..... Wet cylinder liner
 Working order..... 1-5-3-6-2-4
 Fuel supply system Common rail system
 Lubrication method.....Pressure, splash mixing
 Starting mode.Electric start
 Oil capacity..... 52L
 Oil-fuel ratio.....≤0.2g/(kW·h)
 Rotation direction of crankshaftCounterclockwise
 (facing the power output end)
 Minimum no-load speed..... (600~700)r/min
 Speed control performance level.....ISO 8528 G3
 Speed recovery time≤3s
 Total dry weight
 Engine..... 1900kg
 Water tank radiator420kg
 The final weight and size of the engine may vary from specific configuration.

◇ Note:

1. Prime Power: refers to the prime power (PRP) of ISO 8528. When the engine is maintained according to Yuchai maintenance interval and method, it refers to the maximum power that is output continuously by the engine annually for the variable loads without any limit on the engine running time. The average output power may not exceed 70% of the prime power within 24h.
2. Standby Power: refers to the emergency standby power (ESP) of ISO 8528. When the engine is maintained according to Yuchai maintenance interval and method and the public power grid breaks down or under test conditions, it refers to the maximum power of a variable series when the engine runs for 200 h per year. The average output power may not exceed 70% of the standby power within 24h.
3. The engine power data of the above table are measured under the conditions specified in ISO 8528-1 and ISO 3046.
4. The power output of the alternator set is calculated from the assumed alternator efficiency and is for reference only.
5. The kVA value and the kW value are converted according to the standard power factor of 0.8.
6. The above data is the latest data when it is printed, but the data may be changed after publication.



Engine configuration

- **Intake system**
 - Air filter
- **Cooling system**
 - Water tank intercooler parts (optional)
- **Electrical appliance**
 - 24V starter
 - Intake preheater (optional)
- **Fuel system**
 - Common rail system
 - Fuel filter
- **Lubricating system**
 - Oil filter
- **Flywheel and flywheel housing**
 - SAE 14" Flywheel
 - SAE 1# Flywheel housing
- **Documents**
 - Operation manual
 - Installation guide
 - Parts catalog

Fuel grade: Summer: GB 252-2015 premium grade or first grade 0#, ordinary diesel 10#. Winter: GB 252-2015 premium grade or first grade 0#, ordinary diesel -10#, -20#, -35#.

Oil grade: summer: 15W-40, winter: 10W-30 or other diesel engine oil of CH-4 grade not lower than GB11122-2006 according to the environment.