YC6MK350L-D20

Version No.: 2017V02 Implemented on: 2017-09-01

Prime power:235 kW @ 1500 r/min

Standby power:259 kW @ 1500 r/min

For clients in the places where emission regulations have not been implemented yet



(Image shown may not reflect actual engine)

Introduction

YC6MK series engines are developed and designed with internationally advanced design concept and methods as well as several technological achievements in modern diesel engine research. The engine has strong power, reliable quality, high efficiency and fuel efficiency, and its indicators reach the internationally advanced level.

Product Features

- Integral crankcase and integral cylinder head are adopted, which ensure good reliability. Wet cylinder liner is adopted, which ensures the wear resistant and easy maintenance.
- The advanced technology of four-valve + high-efficiency turbocharged & intercooled is adopted, ensuring sufficient air inflow and sufficient combustion at low fuel consumption.
- The internal cooling oil passage technology is adopted for piston, the engine oil flowing through the piston removes the piston heat in time so that the piston can withstand higher combustion temperature, making the engine highly reliable.
- Special piston seal technology and valve oil seal technology are adopted, making the engine oil consumption low.
- G3 performance requirements for generator set are met.。

Product Service

- Service: Yuchai has built the largest service network in the industry with the minimum service radius, the most extensive “three guarantees” and the shortest response time. 49 global offices are set up, including 14 overseas offices in Europe, Africa and South America etc. Besides, 108 overseas service agents, more than 3,000 service stations and 5,000 sales networks of fittings are established, providing the users with satisfying and considerate services.
- 24h global service hotline: +86 95098.

Engine speed	Application	Standard generator unit output		Engine power			
				Total power		Net power	
r/min		kVA	kW	kW	Ps	kW	Ps
1500	Prime	250	200	235	320	223	303
	Standby	275	220	259	352	245	333

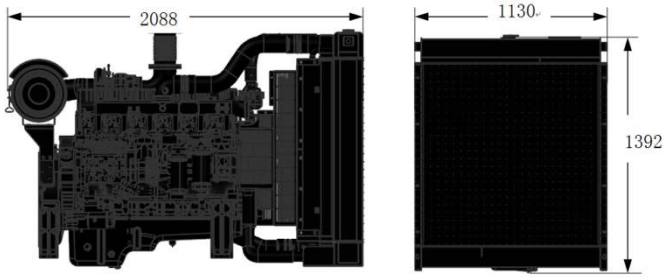
✧ Notes:

1. Prime Power: which corresponds to the basic power (PRP) described in ISO 8528. Implement the maintenance according to the Yuchai's requirement, maximum power of variable load continuous output unlimited time. The average output power shall not exceed 70% of the prime power in every 24 hours of operation.

   Standby Power: In correspondence with the emergency standby power (ESP) stated in ISO 8528. Implement the maintenance according to the Yuchai's requirement, maximum power at a variable load in the event of a main power network failure up to a maximum of 200 hours per year. The average output power shall not exceed 70% of the standby power in every 24 hours of operation.
2. The engine power data stated in the table is the measured performance under the condition stated in ISO 8528-1 and ISO 3046.
3. The power output of the generator unit is calculated according to the efficiency of the AC generator. Thus, it is for reference only.
4. The kVA and kW values are converted as per standard power factor 0.8.
5. The information mentioned above is the latest one, however, the relevant information may be altered after publication.

Engine load	1500 r/min	
	g/（kW·h）	L/h
Standby power	205.1	63.6
Prime power	203.3	57.2
75% prime power	202.3	42.7
50% prime power	204.7	28.8

Remarks: the diesel oil density is 0.835g/cm^3.



Technical Data

Type	Vertical, in-line, water-cooled, four-stroke
Induction system	Turbocharged & Intercooled
Type of combustion chamber	Direct-injection reentrant ω combustion chamber
Cylinder quantity - Bore x stroke.	6-123×145mm
Number of valve per cylinder.	4
Displacement	10.34L
Compression ratio	16.8:1
Cylinder type	Wet-type cylinder sleeve
Working sequence	1-5-3-6-2-4
Fuel supply system	Mechanical pump + electronic governor
Lubrication mode	Combination of pressure and splashing
Starting mode	Electronic
Engine oil capacity	30L (dry-type engine)
Engine oil and fuel consumption ratio	≤0.1%
Rotation	Anticlockwise (facing the power delivery end)
Minimum no-load speed.	(650～700) r/min
Speed-regulation grade	ISO 8528 G3
Noise *Lp*	≤100dB(A)
Total dry weight	
Engine	1030 kg
Radiator	155 kg

The final weight and sizes of the engine varies according to the specific arrangement.

Engine Arrangement

- **Air Intake System**
  - Air filter
- **Cooling system**
  - Radiator (optional)
- **Electrical device**
  - 24V/12V electrical system
  - Inlet preheater (optional)
- **Fuel system**
  - Fuel Filter
- **Lubrication system**
  - Engine oil filter
- **Flywheel and flywheel housing**
  - SAE 14 flywheel
  - SAE 1# flywheel housing
- **Documents**
  - Operation Instruction
  - Installation Guide
  - Parts catalog

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

Oil brand: 15W-40 in summer; 10W-30 or other environmentally suitable diesel engine oils with the quality grade not lower than Grade CH-4 as provided in GB 11122-2006 in winter.