

YC6A275-D30

Prime power: 185 kW @ 1500 r/min Standby power:203 kW @ 1500 r/min

Emission regulations to be observed:

GB 20891-2014 Stage III ECE R96 Stage IIIA

Introduction

YC6A series engine through long-term market trial, is a mature product with excellent performance and high reliability; the market quantity of it is more than one million. YC6A275-D30 engine is developed for the characteristics of generator unit, which is characterized by high cost performance, easy use and maintenance, and superior NVH performance.



Implemented on: 2017-09-01

(Image shown may not reflect actual engine)

Product Features

- High-strength alloy cast iron engine body, forging crankshaft are adopted, which ensure high reliability after years of full verification by market.
- ◆ Advanced and mature electronically-control common rail (BOSCH) and high-efficiency turbocharged & intercooled technologies are equipped with, which ensure precise control of fuel-injection quantity and sufficient air intake; and the full combustion, low fuel consumption and less emission of diesel engine under different load conditions are
- The internal cooling oil passage is adopted for piston, which effectively reduces piston temperature and ensures the long service life.
- G3 performance requirements for generator set are met.
- ◆ The engine is environmental friendliness and meets GB 20891-2014 Stage III and ECE R96 Stage IIIA emission requirements.

Product Service

Version No.: 2017V02

- ◆ 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		Engine power			
		output		Total power		Net power	
r/min		kVA	kW	kW	Ps	kW	Ps
1500	Prime	200	160	185	252	173	235
	Standby	220	176	203	276	191	260

♦ 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.



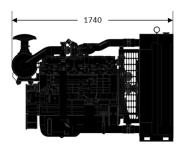
Б. 1. 1.	1500 r/min			
Engine load	g/ (kW h)	L/h		
Standby power	209.1	50.7		
Prime power	212.6	47.1		
75% prime power	225.2	37.4		
50% prime power	232.5	25.8		

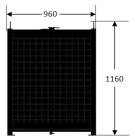
Remarks: the diesel oil density is 0.835g/cm³.

Technical Data

	**			
Туре	Vertical, in-line, water-cooled,			
	four-stroke			
Induction system	Turbocharged & Intercooled			
Type of combustion chamber	Direct-injection reentrant ω			
Type of combustion chamber	combustion chamber			
Cylinder quantity - Bore x	6-108×132mm			
stroke.				
Number of valve per cylinder.	2			
Displacement	7.26L			
Compression ratio	17.5:1			
Cylinder type	Wet-type cylinder sleeve			
Working sequence	1-5-3-6-2-4			
F 1 1 1	Electronically-control high			
Fuel supply system	pressure common rail			
Lubrication mode	Combination of pressure and			
Lubrication mode	splashing			
Starting mode	Electronic			
Engine oil capacity	22L (dry-type engine)			
Engine oil and fuel	≤0.1%			
consumption ratio				
D. C.	Anticlockwise (facing the power			
Rotation	delivery end)			
Minimum no-load speed.	(650~700) r/min			
Speed-regulation grade	ISO 8528 G3			
Noise <i>Lp</i>	≤98.3dB(A)			
Total dry weight	_			
Engine	725kg			
Radiator	100kg			

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

Electronically-control high pressure common rail system Fuel Filter(two-stage diesel filter)

> Lubrication system

Engine oil filter

> Flywheel and flywheel housing

SAE 11.5" flywheel

SAE 2# 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.