# FDK ENERGY GUANGZHOU SANQ DIESEL GENERATOR SET CO., LTD

# SHENZHEN FUDIANKANG ENERGY CO., LTD

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# **DATA SHEET**

**DIESEL GENERATOR 200KW** MODEL#FDK-CD200N/H2 60HZ/1800RPM CUMMINS MODEL: 6LTAA8.9G2



#### **General Features:**

- All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 70% load, 100% ٠ load, 110% load and to check, verify that all control systems, alarm and shut-down protection.
- Equipped with battery charger and 24V high performance maintenance-free lead-acid starting batteries and connecting ٠ cables.
- Stainless galvanized zinc plates with strong corrosion-proof. ٠
- Vibration isolators between the engine/alternator and base frame.
- Equipped with industrial silencer and flexible exhaust hose.
- Designed to comply with ISO8528/GB2820.
- Powered by Cummins engine and coupled with Stamford alternator.
- Water jacket preheater, oil heater and double air cleaner, etc. are available.

Data		
FDK-CD200N/H2	Engine Make	Cummins
180KW/225KVA	Engine Model	6LTAA8.9G2
200KW/250KVA	Alternator model	Stamford UCDI274H
60Hz/1800rpm	Control System	DSE7320
230V/400V	Phase	Three
	FDK-CD200N/H2 180KW/225KVA 200KW/250KVA 60Hz/1800rpm	FDK-CD200N/H2 Engine Make   180KW/225KVA Engine Model   200KW/250KVA Alternator model   60Hz/1800rpm Control System

#### **FDK Diesel Generator Set Data**

(1) Prime power: The rating is available for an unlimited of annual operating hours in variable load applications, in accordance with ISO8528-1.A 10% overload is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1.

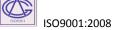
(2) Standby power: The rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

(3) Rated voltage: available with customer requirement.

#### Engine Specifications (DETAILED in APPENDIX)

	<u>.</u>	
6LTAA8.9G2	Aspiration	Turbo-charged
Cummins (China	Bore x Stroke (mm x mm)	114×135
Dongfeng)	Displacement	8.9L
6	Compression Ratio	16.5:1
Not available	Prime power / Speed (KW/RPM)	220/1800
Not available	Standby power/ Speed (KW/RPM)	240/1800
	Cummins (China Dongfeng) 6 Not available	Cummins (China Bore x Stroke (mm x mm)   Dongfeng) Displacement   6 Compression Ratio   Not available Prime power / Speed (KW/RPM)





FDK reserves the right to change the specifications and designs without noice.

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Speed governor	GAC
Piston Speed	8.7 m/s
Friction Energy Output	37.7 kw
Total Lubrication System Capacity (L)	27.6
Coolant Capacity (L)	11.1

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Fuel C	onsumption	at	100%	load	200 at 1800rpm
(g/KWh)	)				
Starter r	notor		24V		
Alternate	or				24V
Low idle	)				850-950rpm

#### Alternator Specifications

Alternator model	UCDI274H	Nur
Alternator manufacturer	STAMFORD	Rat
Exciter type	Single bearing, Brushless,	
	Self-excited	Pov
Rated output prime power	245KVA	Volt
Rated speed	1800 rpm	Insu
Rated frequency	60Hz	Pro

Number of phase	3		
Rated voltage	440V (Available with		
	custom requirements)		
Power factor	0.8		
Voltage regulation NL-FL	≤±1%		
Insulation grade	н		
Protection grade	IP23		

Alternator option: Leroy Somer, MECC, Marathon, Engga, Faraday

## Control System DSE7320 (DETAILED in INSTRUCTION)

DSE7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, breaker control and automatically start the engine when the mains are abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

#### FEATURES

- Microprocessor control, with high stability and credibility.
- Monitoring and measuring operational parameters of the mains supply and genset. ٠
- Indicating operation status, fault conditions, all parameters and alarms.
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable.
- Real time clock for time and date display, overall runtime display, 250 log entries.
- Overall power output display.
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol. ٠

### Soundproof Enclosure Specification

FDK silent generator is designed by professional acoustic engineers based on years of experience. Now we can make the noise of the generator less than 80-85dB(A) at 1m, or 70-75dB(A) at 7m, 60-65dB(A) at 15m.

#### **FEATURES**

- ٠ Multi-way air intake and exhaust guarantee the power performance of the generator.
- Large-scale impedance combined type silencer effectively reduce noise of the generator.
- Internal high performance rubber damper and flexible materials reduce vibration.
- Base mounted fuel tank supports the generator running for 8 hours. •





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Ор	Optional						
Generator set		Alternator		Low environment Temp		ATS	
	Open generator set		Stamford		Water heater		CHINT
	Silent generator set		Marathon		Oil heater		SCHNEIDER
	Trailer generator set		Mecc Alte		Battery heater		ABB
	ABB MCCB circuit breaker		Leroy Somer				
			Farady				
			Engga				
Fue	Fuel system		Control system		age	Syn	chronized system
	12hrs base tank		AMF function		415/240V		CHINT Cabinet
	24hrs base tank		ATS control cabinet		400/230V		SCHNEIDER Cabinet
	Dual wall base fuel tank		DSE7320		380/220V		DSE8610 Module
	Outside fuel tank		DSE7510		220/127V		COMAQ Module
		GU620A			200/115V		DEIF Module

# Dimension & Weight Open

## Soundproof Version

Overall Size: L×W×H (mm)	2650×960×1630	Overall Size: L×W×H (mm)	3600×1330×1065
Weight (kg)	2000	Weight (kg)	2500
	* 4		

### **Sales Promises**

- FDK provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before shipment.
- Quality warranty is according to our standard conditions: 12 months from BL date or 1000 running hours, whichever comes first.
- Service and parts are available from FDK or distributors in your location.
- FDK guarantee use BRAND NEW & GENUINE MACHINE.

