FDK ENERGY GUANGZHOU SANQ DIESEL GENERATOR SET CO., LTD

SHENZHEN FUDIANKANG ENERGY CO., LTD

Tel:86-13729889887 Fax:86-20-84550026 Web: www.fdkenergy.com Email: info@fdkenergy.com

DATA SHEET

DIESEL GENERATOR 175KW MODEL#FDK-CD175N/H2 50HZ/1500RPM CUMMINS MODEL: 6CTAA8.3G2



General Features:

- ٠ All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 70% load, 100% 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. ٠
- 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.

Dala		
FDK-CD175N/H2	Engine Make	Cummins
160KW/200KVA	Engine Model	6CTAA8.3G2
175KW/220KVA	Alternator model	Stamford UCI274G
50Hz/1500rpm	Control System	DSE7320
230V/400V	Phase	Three
	FDK-CD175N/H2 160KW/200KVA 175KW/220KVA 50Hz/1500rpm	FDK-CD175N/H2 Engine Make 160KW/200KVA Engine Model 175KW/220KVA Alternator model 50Hz/1500rpm 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.

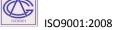
(2) Standby power: The rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

(3) Rated voltage: available with customer requirement.

Engine Specifications (DETAILED in APPENDIX)

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6CTAA8.3G2	Aspiration	Turbo-charged
Cummins (China	Bore x Stroke (mm x mm)	114×135
Dongfeng)	Displacement	8.3L
6	Compression Ratio	16.5:1
Not available	Prime power / Speed (KW/RPM)	183/1800
Not available	Standby power/ Speed (KW/RPM)	203/1800
	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	8.2 m/s
Friction Energy Output	24.65kw
Total Lubrication System Capacity (L)	23.8
Coolant Capacity (L)	12.3

		01		
Fuel Consumption	at	100%	load	209 at 1800rpm
(g/KWh)				
Starter motor				24V
Alternator				24V
Low idle				700-950rpm

Alternator Specifications

UCI274G	Nu
STAMFORD	Ra
Single bearing, Brushless,	
Self-excited	Po
216KVA	Vo
1800 rpm	Ins
60Hz	Pr
	STAMFORD Single bearing, Brushless, Self-excited 216KVA 1800 rpm

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. ٠





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Op	Optional						
Generator set		Alte	rnator	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	system	Con	trol system	Voltage		Synchronized 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)	2550×960×1500	Overall Size: L×W×H (mm)	3400×1130×1915
Weight (kg)	1700	Weight (kg)	2200
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Sales Promises

- FDK provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before ۵ 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.

