FJK ENERGY

SHENZHEN FUDIANKANG ENERGY CO., LTD GUANGZHOU SANQ DIESEL GENERATOR SET CO., LTD

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DATA SHEET

DIESEL GENERATOR 175KW MODEL#FDK-CD175/H1 50HZ/1500RPM CUMMINS MODEL: 6CTAA8.3G2



General Features:

- 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 cables.
- Stainless galvanized zinc plates with strong corrosion-proof.
- 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.

FUR Diesel Generator Set	Data		
Genset Model	FDK-CD175/H1	Engine Make	Cummins
Prime Power	160KW/200KVA	Engine Model	6CTAA8.3G2
Standby Power	175KW/220KVA	Alternator model	Stamford UCI274H
Output Frequency / Rated speed	50Hz/1500rpm	Control System	DSE7320
Rated Voltage	230V/400V	Phase	Three

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>	
Engine Model	6CTAA8.3G2	Aspiration	Turbo-charged
Engine Manufacturer	Cummins (China Bore x Stroke (mm x mm)		114×135
	Dongfeng)	Displacement	8.3L
Cylinder quantity	6	Compression Ratio	16.5:1
Cylinder Arrangement	Not available	Prime power / Speed (KW/RPM)	183/1500
Cycle	Not available	Standby power/ Speed (KW/RPM)	203/1500
Cylinder Arrangement	Not available	Prime power / Speed (KW/RPM)	183/1500





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

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Speed governor	GAC
Piston Speed	6.8m/s
Friction Energy Output	17kw
Total Lubrication System Capacity (L)	23.8
Coolant Capacity (L)	12.3

		07.55		6 01
Fuel Consumption	at	100%	load	205 at 1500rpm
(g/KWh)				
Starter motor				DC24V
Alternator				DC24V
Low idle				700-950rpm

Alternator Specifications

Alternator model	UCI274H
Alternator manufacturer	STAMFORD
Exciter type	Single bearing, Brushless,
	Self-excited
Rated output prime power	200 KVA
Rated speed	1500 rpm
Rated frequency	50Hz

Number of phase	3
Rated voltage	400V (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.
- 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.

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

- 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.





ISO9001:2008 FDK reserves the right to change the specifications and designs without noice.



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- 1-							
Gen	erator set	Alternator		Low environment Temp		ATS	
	Open generator set		Stamford	Stamford D Water heater D			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	П	DEIF Module

Dimension & Weight Open

Soundproof Version

Overall Size: LxWxH (mm)	2550×960×1500		Overall Size: L×W×H (mm)	3400×1130×1915
Weight (kg)	1700	$\langle \cdot \rangle$	Weight (kg)	2200

Sales Promises

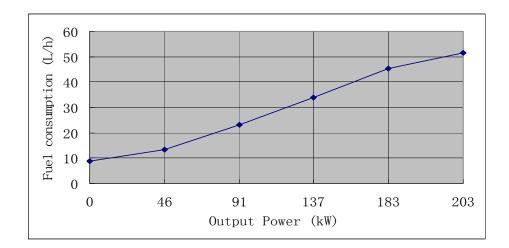
- FDK provides a full line of brand new and high quality products. Each and every unit is strictly factory tested before ۵ shipment.
- Quality warranty is according to our standard conditions: 12 months from BL date or 1000 running hours, whichever comes first.
- Service and parts are available from FDK or distributors in your location.
- FDK guarantee use BRAND NEW & GENUINE MACHINE.



	DONGFENG CUMMINS ENGINE Co., Ltd.			ENGINE MO 6CTAA8.3	-	FREFORMANCE CURVE FR92110
		XiangFan HuBei P.R.CHINA ENGINE DATASHEET—for G-drive		ENGINE FAMILY	CPL	2006/06
				D41	1783	
Displacement	8.3 L	Air intake way	Air-air after-co	oled, turbo-charged		
Cylinder bore	114 mm	Cylinder quantity	6	kW	(BHP)	@RPM
Stroke	135 mm			183	3(245)	1500
Fuel system	P7100 pum	np _ GAC governor / E	SYC ASIMCO	Spee	d-droop	5%
Engine testing with fuel system, water pump and oil pump, without air compressor, alternator, fan, other options and driving accessory. Testing condition: air intake resistance 250 mmHg, exhaust back pressure 50 mmHg.						

Engine	Standby Power		Base Out	put Power	Continuous Power	
Speed-RPM	kW	HP	kW	HP	kW	HP
1500	203	272	183	245	149	200

Out	Fuel cons	sumption					
%	kW	HP	g/kW.h	L/h			
Standby Power							
100	203	272	209	51.4			
Base Output Power							
100	183	245	205	45.4			
75	137	184	206	34			
50	91	123	211	23.3			
25	46	61	241	13.5			
Continuous Power							
100	149	200	205	37			



DONGFENG CUMMINS ENGINE Co., Ltd.	NS ENGINE Co., Ltd. 6CTAA8.3-G2	S ENGINE Co., Ltd. 6CTAA8.3-G2	NE Co., Ltd. 6CTAA8.3-G2 ER92	INGINE Co., Ltd. 6CTAA8.3-G2		FREFORMANCE CURVE FR92110
XiangFan HuBei P.R.CHINA ENGINE DATASHEET—for G-drive	ENGINE FAMILY D41	CPL 1783	2006/06			
ypical engine data						
et weight		kg	684			
otate part instantaneous inertia _ without flywheel		kg.m2	0.37			
istance between gravity center and rear surface of cylinder block		mm	541			
istance between gravity center and center line above of crankshaft		mm	163			
ngine installation						
tatic bent torque permitted—rear surface of cylinder block		Nm	1356			
tatic bent torque permitted—front surface of cylinder block		Nm	495			
tatic bent torque permitted—flank surface of flywheel-house		Nm	250			
xhaust system						
lax. back pressure		mmHg	76			
iameter of exhaust pipe recommended		mm	100			
ir intake system						
lax. air intake resistance						
irty filter		mmH2O	635			
ormal air cleaner and clean filter		mmH2O	254			
eavy duty cleaner and clean filter		mmH2O	381			
iameter of intake pipe recommended		mm	125			
ubrication system						
ormal oil pressure range						
ow idle		kPa	207			

Rated speed	kPa	276_414
Max. oil temperature permitted in oil pan	്	121
Oil pan capacity (Max _ Min)	L	18.9_15.1
Lubrication system Min. capacity (oil pan + oil filter)	L	23.8
Usage inclining degree permitted (any direction)	0	45

Fuel system

Fuel injection pump model	BYC P7100 pump with GAC governor	
Max. fuel input resistance of transfer pump	mmHg	102
Max. overflow fuel resistance at overflow pipe of injector	mmHg	254
Total fuel overflow amount	L/h	208
Cooling system		
Coolant capacity-engine only	L	12.3
Max. coolant cycling resistance exterior engine	kPa	28
Thermostat adjusting temperature (range)	്	83_95
Min. opening pressure of radiator cap	kPa	69
Max. coolant temperature permitted _ Standby Power/Base output Power	°C	104/100
Electric system		
Starter	12V	24V
Battery charging system	63A	40A
Max. starting circuit resistance	0.00075Ω	0.002Ω
Min. battery capacity12°C (CCA: Cold Cranking Ampere)	950CCA	475CCA

Technical data _ under standard fuel delivery rate FR92110	Base output Power	Standby Power
Engine speed _ RPM	1500	1500
Output Power _ kW	183	203

Torque _ Nm	1758	1950
Low idle _ RPM	700-950	700-950
Friction energy output _ kW	17	17
Piston speed _ m/s	6.8	6.8
Engine coolant flow _ L/sec	3.3	3.3
Air intake flow _ L/sec	180	187
Exhaust flow _ L/sec	442	485
Exhaust temperature _ °C	500	545
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	83	95
Fuel energy output _ kW	N/A	N/A

All data's error within ±5%.

Excuse for none notice anymore in case of data changed

DONGFENG CUMMINS ENGINE Co., Ltd.