

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

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DATA SHEET

DIESEL GENERATOR 132KW

MODEL#FDK-CD132/H1

50HZ/1500RPM

CUMMINS MODEL: 6CTA8.3G2



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.

FDK Diesel Generator Set Data

Genset Model	FDK-CD132/H1
Prime Power	120KW/150KVA
Standby Power	132KW/165KVA
Output Frequency / Rated speed	50Hz/1500rpm
Rated Voltage	230V/400V

Engine Make	Cummins
Engine Model	6CTA8.3G2
Alternator model	Stamford UCI274F
Control System	DSE7320
Phase	Three

- (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)

Engine Model	6CTA8.3G2		
Engine Manufacturer	Cummins (China		
	Dongfeng)		
Cylinder quantity	6		
Cylinder Arrangement	Not available		
Cycle	Not available		

Aspiration	Turbo-charged
Bore x Stroke (mm x mm)	114×135
Displacement	8.3L
Compression Ratio	16.5:1
Prime power / Speed (KW/RPM)	163/1500
Standby power/ Speed (KW/RPM)	180/1500







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Speed governor	GAC	Fuel Consumption at 100% load	210 at 1500rpm
Piston Speed	6.8m/s	(g/KWh)	
Friction Energy Output	17kw	Starter motor	DC24V
Total Lubrication System Capacity (L)	23.8	Alternator	DC24V
Coolant Capacity (L)	12.3	Low idle	750-950rpm

Alternator Specifications

Alternator model	UCI274F	Number of phase	3
Alternator manufacturer	STAMFORD	Rated voltage	400V (Available with
Exciter type	Single bearing, Brushless,		custom requirements)
	Self-excited	Power factor	0.8
Rated output prime power	160 KVA	Voltage regulation NL-FL	≤±1%
Rated speed	1500 rpm	Insulation grade	Н
Rated frequency	50Hz	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.







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Optional

Gen	erator set	Alte	rnator	Low environment Temp		set Alternator Low environment Te		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		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	П	DEIF Module		

Dimension & Weight Open

Overall Size:	2450×810×1450
LxWxH (mm)	
Weight (kg)	1400

Soundproof Version

Overall Size:	3200×1150×1800
L×W×H (mm)	
Weight (kg)	1800

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
- Service and parts are available from FDK or distributors in your location.
- FDK guarantee use BRAND NEW & GENUINE MACHINE.



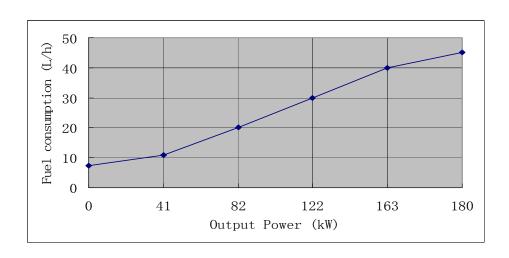


		ENG CUMMINS ENGINE	•	6CTA8.3-G2		FREFORMANCE CURVE FR91407	
		INE DATASHEET—for G		ENGINE FAMILY CPL		2005/40	
	ENG	INE DATASHEET—for G	-arive	D41	8414	2005/12	
Displacement	8.3 L	Air intake way	After-cooled,	turbo-charged			
Cylinder bore	114 mm	Cylinder quantity	6	kW(BHP)		@RPM	
Stroke	135 mm			163	3(219)	1500	
Fuel system	PB pump _	_ GAC governor / BYC	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.							

Engine	Standby Power		Standby Power Base Output Power			Continuo	us Power
Speed-RPM	kW	kW HP kW HP		kW	HP		
1500	180	241	163	219	133	178	

Output Power			Fuel consumption				
%	kW	HP	g/kW.h	L/h			
Standby Power							
100	180	241	212	45			
Base Output Power							
100	163	219	210	40			
75	122	164	207	30			
50	82	110	210	20			
25	41	55	229	11			
Continuous Power							
100	133	178	206	32			

Testing condition: air intake resistance 250 mmHg, exhaust back pressure 50 mmHg.



	DONGFENG CUMMINS ENGINE Co., Ltd. XiangFan HuBei P.R.CHINA	ENGINE MODEL 6CTA8.3-G2		FREFORMANCE CURVE FR91407	
	ENGINE DATASHEET—for G-drive	ENGINE FAMILY D41	CPL 8414	2005/12	
Typical engi	ne data				
Net weight			kg	702	
Rotate part instantaneous inertia _ without flywheel			kg.m2	0.37	
Distance between gravity center and rear surface of cylinder block			mm	541	
Distance between gravity center and center line above of crankshaft			mm	163	
Engine insta	ıllation				
Static bent torque permitted—rear surface of cylinder block			Nm	1356	
Static bent torque permitted—front surface of cylinder block			Nm	495	
Static bent torque permitted—flank surface of flywheel-house			Nm	250	
Exhaust sys	tem				
Max. back pressure			mmHg	76	
Diameter of exhaust pipe recommended		mm		100	
Air intake sy	vstem				
Max. air intak	ke resistance				
Dirty filter			mmH2O	635	
Normal air cleaner and clean filter			mmH2O	254	
Heavy duty cleaner and clean filter			mmH2O	381	
Diameter of in	ntake pipe recommended		mm	125	

Lubrication systemNormal oil pressure range

Low idle Rated speed Max. oil temperature permitted in oil pan Oil pan capacity (Max _ Min) Lubrication system Min. capacity (oil pan + oil filter) Usage inclining degree permitted (any direction)	kPa kPa ℃ L L	207 276_414 121 18.9_15.1 23.8 45
Fuel system		
Fuel injection pump model	BYC PB 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)	${\mathbb C}$	83_95
Min. opening pressure of radiator cap	kPa	69
Max. coolant temperature permitted _ Standby Power/Base output Power	${}^{\mathbb{C}}$	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 FR91407 Engine speed _ RPM	Base output Power 1500	Standby Power 1500

Output Power _ kW	163	180
Torque _ Nm	1040	1145
Low idle _ RPM	750-950	750-950
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	192	206
Exhaust flow _ L/sec	519	578
Exhaust temperature _ °C	536	563
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.