

### SHENZHEN FUDIANKANG ENERGY CO., LTD

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# **DATA SHEET**

**DIESEL GENERATOR 22KW** MODEL#FDK-CD22N/H2 60HZ/1800RPM CUMMINS MODEL: 4B3.9G2



#### **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.
- 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.

FDR Diesel Generator Set Data							
FDK-CD22N/H2	Engine Make	Cummins					
20KW/25KVA	Engine Model	4B3.9G2					
22KW/28KVA	Alternator model	Stamford PI142D					
60Hz/1800rpm	Control System	DSE7320					
230V/400V	Phase	Three					
	FDK-CD22N/H2 20KW/25KVA 22KW/28KVA 60Hz/1800rpm	FDK-CD22N/H2 Engine Make   20KW/25KVA Engine Model   22KW/28KVA 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.

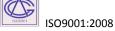
(2) Standby power: The rating is applicable for supplying emergency power in variable load applications for up to 200 hours per year in accordance with ISO8528-1. Overload is not allowed.

(3) Rated voltage: available with customer requirement.

#### Engine Specifications (DETAILED in APPENDIX)

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Engine Model	4B3.9G2	Aspiration	Naturally
Engine Manufacturer	Cummins (China	Cummins (China Bore x Stroke (mm x mm)	
	Dongfeng)	Displacement	3.9L
Cylinder quantity	4	Compression Ratio	16.5:1
Cylinder Arrangement	Vertical in-line	Prime power / Speed (KW/RPM)	24/1800
Cycle	Four stroke	Standby power/ Speed (KW/RPM)	27/1800
Cylinder Arrangement	Vertical in-line	Prime power / Speed (KW/RPM)	24/1800





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

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

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Speed governor	Electrical
Piston Speed	7.2m/s
Friction Energy Output	11.9kw
Total Lubrication System Capacity (L)	10.9
Coolant Capacity (L)	7.2

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Fuel Consumption	at	100%	load	232 at 1800rpm
(g/KWh)				
Starter motor				24V
Alternator				24V
Low idle				950-1050rpm

#### **Alternator Specifications**

Alternator model	PI142D
Alternator manufacturer	STAMFORD
Exciter type	Single bearing, Brushless,
	Self-excited
Rated output prime power	27 KVA
Rated speed	1800 rpm
Rated frequency	60Hz

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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Gen	erator 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		trol system	Volta	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:	1800×740×1300	Overall Size:	2500×1000×1400
L×W×H (mm)		L×W×H (mm)	
Weight (kg)	800	Weight (kg)	1300
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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 ٠ 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.

