

### GuangDong FuDianKang Power Co., Ltd. ShenZhenFuDianKang Diesel Gensets Co., Ltd.

Tel:86-13710087995

Web: www.fdkenergy.comEmail: info@fdkenergy.com

# **DATA SHEET**

DIESEL GENERATOR 176KW MODEL#FDK-Y220V1/H1 50HZ/1500RPM

YUCHAI MODEL: YC6A275-D30



#### **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
- 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-Y220V1/H1		
Prime Power 160KW/200KVA			
Standby Power	176KW/220KVA		
Output Frequency / Rated speed	50Hz/1500rpm		
Rated Voltage	230 <mark>V/4</mark> 00V		

Engine Make	YUCHAI
Engine Model	YC6A275-D30
Alternator model	NIANFENG NF274H
Control System	HGM6110
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	YC6A275-D30
Engine Manufacturer	YUCHAI (China)
Cylinder quantity	6
Cylinder Arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbo-charged

Bore x Stroke (mm x mm)	108×132
Displacement	7.255L
Compression Ratio	17.5:1
Prime power / Speed (KW/RPM)	185/1500
Standby power/ Speed (KW/RPM)	203/1500
Speed governor	Electrical





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Total Lubrication System Capacity (L)	24	Fuel Consumption at 100% load 212.6at1500rpm
Coolant Capacity (L)	55	(g/KWh)

#### **Alternator Specifications**

Alternator model	NF274H	Number of phase	3
Alternator manufacturer	NIANFENG Rated voltage		400V (Available with
Exciter type	Single bearing, Brushless,		custom requirements)
	Self-excited	Power factor	0.8
Rated output prime power	200KVA	Voltage regulation NL-FL	≤±1%
Rated speed	1500 rmp	Insulation grade	Н
Rated frequency	50Hz	Protection grade	IP23

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

### Control System HGM6110 (DETAILED in INSTRUCTION)

HGM6110 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 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	ATS	i
	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	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	П	COMAQ Module
			GU620A		200/115V		DEIF Module

# Dimension & Weight

## Open

Overall Size:	2600×1020×1700
L×W×H (mm)	
Weight (kg)	2000

#### Soundproof Version

Overall Size:	3600×1600×2100
L×W×H (mm)	
Weight (kg)	5200

#### **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.

