

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

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### **DATA SHEET**

DIESEL GENERATOR 18KW

MODEL#FDK-P23/H1

50HZ/1500RPM

PERKINS MODEL:404A-22G1



#### **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 Perkins 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-P23/H1
Prime Power	16KW/20KVA
Standby Power	18KW/23KVA
Output Frequency / Rated speed	50Hz/1500rpm
Rated Voltage	230V/400V

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Engine Make	Perkins CHINA
Engine Model	404A-22G1
Alternator model	Stamford S0L2-G1
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	404A-22G1
Engine Manufacturer	Perkins CHINA
Cylinder quantity	4
Cylinder Arrangement	In-line
Cycle	4
Aspiration	Naturally

Bore x Stroke (mm x mm)	84×100
Displacement	2.216L
Compression Ratio	23.3:1
Prime power / Speed (KW/RPM)	18.7kw/1500
Standby power/ Speed (KW/RPM)	20.6kw/1500
Governor type	Mechanical





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Piston Speed	5m/s	Fuel Consumption at 100% load	5.3 L
Typical genset electrical output (0,8 pf	16kw	(L/HOUR)	
25°C)		Starter motor	12V
Total Lubrication System Capacity (L)	10.6	Alternator	12V
Coolant Capacity (L)	3.6	Minimum cranking speed.	150rpm

#### **Alternator Specifications**

Alternator model	S0L2-G1
Alternator manufacturer	STAMFORD
Exciter type	Single bearing, Brushless,
	Self-excited
Rated output prime power	20KVA
Rated speed	1500 rpm
Rated frequency	50Hz

Number of phases	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 reduces noise of the generator.





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- Internal high performance rubber damper and flexible materials reduce vibration.
- Base mounted fuel tank supports the generator running for 8 hours.

#### **Optional**

Gen	erator set	Alte	rnator	Low	environment Temp	ATS	
	Open generator set		Stamford		Water heater		CHINT
	Silent generator set		Marathon		Oil heater		SCHNEIDER
	Trailer generator set		MeccAlte		Battery heater		ABB
	ABB MCCB circuit breaker		Leroy Somer				
			Farady				
			Engga				
Fue	system	Con	trol system	Volta	age	Syn	chro <mark>n</mark> ized sy <mark>s</mark> tem
	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	o o	DSE8610 Module
	Outside fuel tank		DSE7510		220/127V		COMAQ Module
			GU620A		200/115 <mark>V</mark>		DEIF Module

#### **Dimension & Weight**

#### Open

Overall Size:	1300×600×1050
L×W×H (mm)	
Weight (kg)	620

#### Soundproof Version

Overall Size: L×W*H (mm)	1750X900X1400
Weight (kg)	1120

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

