

# GUANGDONG FUDIANKANG DIESEL GENSET CO., LTD SHENZHEN FUDIANKANG DIESEL GENESET CO., LTD

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## **DATA SHEET**

DIESEL GENERATOR 600KW

MODEL#FDK-M750/H1

50HZ/1500RPM

MITSUBISHI MODEL: S6R2-PTA-C



### **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 Mitsubishi engine and coupled with Stamford alternator.
- Water jacket preheater, oil heater and double air cleaner, etc. are available.

#### **FDK Diesel Generator Set Data**

FDK-M750/H1
530KW/663KVA
600KW/750KVA
50Hz/1500rpm
230V/400V

Engine Make	Mitsubishi China
Engine Model	S6R2-PTA-C
Alternator model	Stamford HCI544F
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	S6R2-PTA-C
Engine Manufacturer	Mitsubishi
	China
Cylinder quantity	6
Cylinder Arrangement	In-line
Cycle	Four stroke

Aspiration	Turbo charged
Bore x Stroke (mm x mm)	170×220
Displacement	29.96L
Compression Ratio	14:1
Prime power / Speed (KW/RPM)	575/1500
Standby power/ Speed (KW/RPM)	635/1500







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Speed governor	Electronic	Fuel Consumption at 100% load	N.A.
Piston Speed	11m/s		
Maximum Regenerative Power	64kw	Starter motor	24V
Total Lubrication System Capacity (L)	100	Alternator	24V
Coolant Capacity Engine Only (L)	55	Maximum Overspeed Capacity	1750RPM

### **Alternator Specifications**

Alternator model	HCI544F	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	670 KVA	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 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	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				
Fuel	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		COMAQ Module
			GU620A		200/115V		DEIF Module

# Dimension & Weight Open

Overall Size:	4000×1600×2200
L×W×H (mm)	
Weight (kg)	4800

### **Soundproof Version**

Overall Size:	5800×2000×2550
L×W×H (mm)	
Weight (kg)	7500

### **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**.



### **SPECIFICATION**

OF

### MITSUBISHI DIESEL ENGINE

MODEL: S6R2-PTA-C

FOR DIESEL GENERATOR SET

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					APPROVED BY	DRAWN BY
		DATE	2013.07	.18		

### 1.GENERAL

Object and use : Diesel generator

Color of painting : GB02(GSB05-1426-2001)

Applicable conditions

Ambient temperature :  $5^{\circ}\text{C} \sim 40^{\circ}\text{C}$ 

Altitude : 1500m above sea level

Max,humidity : 85%
Place of installation : In door

### Shop test

Diesel engine running tests shall be carried out by the following items.

Starting test

Load test : 1/4, 2/4, 3/4 Load each

: 4/4 Load

Governor test should be done along with

respective governor controller

Safety stop device test

### Standard

All items, unless otherwise specified, are in accordance with JIS, GB and manufacturer's standards.

### **2.PRINCIPAL PARTICULARS**

Model : MITSUBISHI S6R2-PTA-C

Type : 4cycle stroke, water cooled diesel engine

Combustion chamber : Direct injection type

Aspiration : Tarbocharged with after cooler

Number of cylinders : 6-L

Bore  $\times$  stroke : 170mm  $\times$  220mm

Total displacement : 29.96 L Compression ratio : 14.1 : 1

firing order : 1 - 5 - 3 - 6 - 2 - 4

Direction of rotation : Counter clockwise as viewed from flywheel side

Engine dimensions : Length Apx. 1945.5mm

: width Apx. 1050.5mm: Height Apx. 1578mm

Dry weight : Apx. 2900kg (without accessories)

Fuel oil : ASTM D975 No. 2 - D or BS 2869 class A or GB 252-0

Lubricating oil : API service CF class or CH-4 class

Output at ISO 8528 standard air conditions (25°C, 100kPa, 30% Humid)

 $\begin{array}{lll} \text{Stand - by rating} & : & 635 \text{kW}/1500 \text{min}^{-1} \\ \text{Prime rating} & : & 575 \text{kW}/1500 \text{min}^{-1} \end{array}$ 

### 3. STANDARD EQUIPMENTS

(1) Power line system

Flywheel : DWG.NO.38C96-21001

SAE J620d 18in, except screw size

Flywheel housing : DWG.NO.38C96-21001

SAE J617c NO.0, except screw size

Engine mounting : DWG.NO.38C96-14001

4 points mounting, C = 160 mm

Torsional vivration damper : Viscous type

(2) Air intake system

Air cleaner : DWG.NO.38C96-30181

DWG.NO.38C96-30383 loose supply

2 pcs

Paper element type with rain cap

Turbocharger : MITSUBISHI TD Type

Model: TD15

Air cooler : Jacket water cooled type

plated element type

Air heater : Not supply

(3) Exhaust system

Exhaust manifold : Air cooled type without heat insulator

Muffler : Not supply

Flexible pipe : DWG.NO.S37-1080 loose supply

JIS 200A, L = 230mm, Weight 38kg

Companion flange : Not supply

Breather : DWG.NO.38C96-43081

Downside direction type

For blow - off to outside of engine room

(4) Lubricating system

Oil pump : Gear pump type

Capacity of oil pump : 270L/min (at Engine Speed 1500min<sup>-1</sup>)

Lub. oil pressure at main gallery :  $0.5 \sim 0.65 \text{ MPa}$ 

Quantity of oil (Approx.) : Oil pan full level : 84 L

low level : 52 L
Others (filter etc.) : 10 L
Total : 94 L

Lub. oil filter (Full flow) : Paper element cartrige type  $\times$  2pcs

filter mesh :  $20 \mu$  with by - pass alarm switch

Lub. oil filter (By - pass flow) : Paper element cartrige type  $\times$  1pc

filter mesh :  $2 \mu$ 

Lub. oil cooler : Water cooled corrugated fin type with by - pass valve

(5) Cooling system

Water pump : Belt drive centrifugal type

Capacity of water pump : 820 L/min (at Engine Speed 1500min<sup>-1</sup>)

Thermostat : Wax pellet type  $\times$  2pcs

Open at 71°C ~ 85°C

Fan : Pusher type steel fan 1010 diameter

Fan speed ratio i = 0.806

Quantity of Coolant : Approx.55L (only Engine)

(6) Fuel system

Fuel inlet pipings : DWG.NO.38C96-62113

For rubber hose joint (hose dia.  $\phi$  16mm)

Fuel return pipings : DWG.NO.38C96-61313

For rubber hose Joint (hose dia. φ 16mm)

Fuel overflow of Inj. Pump and fuel leak - off of Nozzle have to return to fuel tank

Injection pump : Bosch type "PS6" without timer Feed pump : Piston type with priming pump Injection Nozzle : Hole type  $0.325 \text{mm} \times 10 \text{ holes}$  Fuel filter : Paper element cartrige type  $\times 2 \text{pcs}$ 

Filter mach · 5 ·

Filter mesh :  $5 \mu$ 

(7) Control system

Governor : DWG.NO.38C96-63016

Electronic speed governor

Speed droop:  $0 \sim 5\%$  abjustable

Actuator : DWG.NO.S13-1761

Supply voltage: DC24V± 20%

Current consumption

At starting : 13A

Normal operation :  $0.5 \sim 2A$ 

Min. Supply voltage : DC16V50%ED

Controller : DWG.NO.S13-1042 loose supply

Model: XS-400B-03 (04410-33100)

Supply voltage: DC24V±20%

Potentiometer :  $PM10k\Omega$ , For low idling speed setting

Not supply

Potentiometer :  $PM10k\Omega$ , For rated speed setting

Not supply

Connector : DWG.NO.S13-1022 loose supply

From actuator to controller

5000mm length

Magnetic pick up : DWG.NO.S13-2011

With connector

Cable : DWG.NO.S13-2020 loose supply

From magnetic pick up to controller

4300mm length

(8) Starting system

Starter switch : with key, with heat position

Not supply

Starting motor : DC24V, 7.5KW

Reduction type with safety relay

with 2 poles connector (DWG. NO.S14-0320)

Safety relay : Not supply

The following Starter Protection functions shall be

provided by Customer.

1) Function for engagement operation again when engagement of pinion gear fails.

MHI CONFIDENTIAL

Current of starter : Rush 700A

Cranking 370A

(Ambient temp: 5°C, Lub. oil: SAE NO. 30)

Alternator : DWG.NO.S10-0540

DC24V, 30A, with voltage regulator

With 2 poles connector (DWG. NO.S10-0550)

Recommended battery capacity : DC24V, 250AH

Not supply

Battery switch : Not supply

(9) Stopping system : DWG.NO.38C96-87502

Automatic stop Automatically shut - down by stop solenoid and

electronic governor power off simultaneously

Stop solenoid : DWG.NO.S13-0282

Energized to run type

DC24V, 30.7A(pull), 0.58A(hold)

Manual stop : By stop lever

(10) Safety device

Alarm swtitches : DWG.NO.38C96-90240

Alarm and trip

Low oil press. switch : DWG.NO.S11-0796 (04442-45400)

Diaphragm type: 0.15MPa switch on

High water temp. switch : DWG.NO.S11-0551 (04442-34500)

Wax type: 98°C switch on

Alarm

Oil filter alarm switch : DWG.NO.S11-1371

Piston type: 0.15MPa switch on

Oil filter alarm lamp : Not supply

Air filter alarm indicator : DWG.NO.S11-0920 loose supply

Machanical type: 635mmH<sub>2</sub>O switch on

(11) Instrument

Meter and sensor : DWG.NO.38C96-90151

Tachometer : Pulse type for engine speed

With electrical hour meter

Not supply

Magnetic pick up : DWG.NO.S13-2011

For tachometer, pin-joint type

Cable : For magnetic pick up

Not supply

Thermometer : Electrical type for jacket water and lub. oil temp.

Not supply

Press. gage : Electrical type for lub. oil press.

Not supply

With 2 poles connector (DWG.NO.S14-0330)

Thermometer : For exhaust gas temp.

Not supply

(12) Others

Belt cover : DWG.NO.38C96-25180

For water pump and alternator

Tools (loose supply) : Not supply

### 4. ACCESSORIES (Loose supply parts)

NO.	PARTS NO.	PARTS NAME	Q' TY	Г	OWG. NO.
1	47220-39203	AIR CLEANER ASSY.	2	S35-0511	
2	47220-35200	CAP	2	S35-0650	
3	47220-12100	ELBOW, HOSE	2	S35-0701	38C96-30383
4	47220-39300	BAND	4	S35-0600	
5	05317-51601	CLAMP	4		_
21	47220-34401	INDICATOR	2	S11-0920	
6	47920-00700	FLEXIBLE JOINT	1	S37-1080	
12	04410-33100	CONTROLLER	1	S13-1042	
14	04410-32902	CONNECTOR	1	S13-1022	38C96-63016
15	04410-43500	CABLE, PICK UP	1	S13-2020	
17	F8665-02100	CONNECTOR	1	S14-0320	for starter
18	04322-50001	RELAY, CHATTERING	1	S10-0052	
19	32B90-00300	CONNECTOR	1	S10-0550	for alternator
27	MH052231	CONNECTOR	1	S14-0330	

### 5. DRAWINGS

1         38C96-01018         JOINT DETAIL           2         38C96-04061         WIRING DIAGRAM           4         38C96-14001         MOUNTING DETAIL           5         38C96-21001         FLYWHEEL & HOUSING DETAIL           6         38C96-25180         BELT COVER           7         38C96-30181         AIR INLET PIPING           8         38C96-30383         AIR CLEANER           9         38C96-43081         BREATHER           10         38C96-61313         FUEL RETURN PIPING           11         38C96-62113         FUEL INLET PIPING           12         38C96-63016         GOVERNOR           13         38C96-87502         STOP SYSTEM           14         38C96-90142         METER & SENSOR           15         38C96-90151         METER & SENSOR           16         38C96-90240         ALARM SWITCH           17         S10-0540         ALTERNATOR           18         S10-0550         CONNECTOR           19         S11-0796         PRESSURE SWITCH           20         S11-0796         PRESSURE SWITCH           21         S11-1371         FILTER ALARM SWITCH           23         S13-0282         SOLENOI
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20         S11-0796         PRESSURE SWITCH           21         S11-0920         INDICATOR           22         S11-1371         FILTER ALARM SWITCH
21 S11-0920 INDICATOR 22 S11-1371 FILTER ALARM SWITCH
22 S11-1371 FILTER ALARM SWITCH
23 S13-0282 SOLENOID
24 S13-1022 CONNECTOR
25 S13-1042 CONTROLLER
26 S13-1761 ACTUATOR
27 S13-2011 MAGNETIC PICK UP
28 S13-2020 PICK UP CABLE
29 S14-0320 CONNECTOR
30 S14-0330 CONNECTOR

NO.	DWG. NO.	DWG. NAME	REV.
31	S35-0511	AIR CLEANER	
32	S35-0600	BAND	
33	S35-0650	CAP	
34	S35-0701	ELBOW	
35	S37-1080	FLEXIBLE PIPE	