

High FUJI DELUXE



DIESEL

GENERATORS

High performance and long life

Powered by

KUBOTA/ISUZU

FV-K/FV-Z Series

2 pole

Sound proof type
FV-SKBS
FV-TKBS



Open canopy
FV-SKPC
FV-TKPC



4 pole

Open type
FV-SDKA1
FV-TDKA1
FV-TDZA1



Open canopy
FV-SDKPC
FV-TDKPC



Sound proof type
FV-SDKBS
FV-TDKBS



Bonnet type
FV-SDKB
FV-TDKB



Made in Japan



Robin Machineries & Equipment

Tel: 000971-4-2217124

Fax: 000971-4-2234493

POBox: 5229 Dubai, UAE

Email: alawitra@emirates.net.ae

www.alawigroup.ae

■ Specifications of Three Phase

GENERATOR																						
Model	Item	FV-9TK		FV-14TK		FV-20TK		FV-27TK		FV-19TDK		FV-28TDK		FV-40TDK		FV-47TDK		FV-70TDZ		FV-115TDZ		
		50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60	
60	Frequency (Hz)																					
30.0	Output (kVA)	Stand-by	8.3	9.6	12.4	14.7	17.6	20.3	23.5	27.0	15.5	19.0	22.5	28.0	33.5	39.0	39.2	47.5	59.4	71.0	90.0	115
27.3		Prime	7.2	8.5	10.8	12.7	15.2	17.6	20.3	23.5	14.0	17.5	20.5	25.5	30.5	35.0	35.6	43.1	54.6	65.3	82.0	105
	Type	Revolving-field type AC Generator (Brushless)																				
	Excitation	Brushless, self-excitation																				
1800	Rated speed (min ⁻¹)	3000	3600	3000	3600	3000	3600	3000	3600	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	
	No. of pole	2								4												
	Phase / wire	Three Phase / 4 wire																				
	Voltage	AC 200-480V required																				
	Power factor	0.8																				
	Class of insulation	F-class (both stator & rotor)																				
	Type of coupling	Direct coupling (single bearing)																				
	Voltage regulation system	AVR																				
	Voltage regulation	± 1.5%																				
ENGINE																						
Model	Item	KUBOTA												ISUZU								
		Z482B	D722B	D1005B	V1305B	D1703B	V2203B	V3300B	V3300TB	BB-4BG1T	DD-6BG1T											
	Type	Vertical, Water-Cooled, 4-Cycle Diesel																				
	Cylinders	2 cylinders		3 cylinders			4 cylinders		3 cylinders			4 cylinders				4 cylinders		6 cylinders				
318	Displacement	0.479		0.719		1.001		1.335		1.647		2.197		3.318				4.329		6.494		
43.6	Rated output	PS	9.3	11	14	16.5	19.3	22.8	25.9	30.4	18.5	22.4	25.0	32.2	36.4	43.6	43.0	52.0	65.9	78.9	99.3	123.9
32.1		kW	6.8	8.1	10.3	12.1	14.2	16.8	19.1	22.4	13.6	16.5	18.4	23.7	26.8	32.1	31.6	38.3	48.5	58.1	73.1	91.2
9.1	Fuel consumption (at full load)	ℓ/h	2.2	2.7	3.1	4.1	4.5	5.6	5.9	7.4	3.9	4.8	5.4	6.9	7.7	9.1	8.9	10.8	12.6	15.4	19.8	25.2
60	Fuel tank Capacity	20				40						60				80		120				
	Starting system	Electric-12V DC																Electric-12V DC		Electric-24V DC		
	Automatic safety shut down	Low oil Press / High water temperature																				
SET																						
Model	Sound level (at 7m) Type-BS	Dimension (approx.) (mm)																(Type A1) 78dB		(Type A1) 78dB		
		66dB	68dB	64dB	68dB	66dB	68dB	67dB	69dB	63dB	64dB	63dB	66dB	66dB	67dB	65dB	66dB					
750×980	Dimension (approx.) (mm)	BS	1050×600×690		1250×640×690		1450×720×860		1600×720×900		1500×700×900		1750×700×900		2050×750×980		2100×900×980					
730×1080		B	1000×600×690		1000×625×690 ※(840)		1200×650×850 ※(1160)		1200×700×850 ※(1160)		1300×680×900		1450×680×900		1650×730×1080		1650×730×1080					
700×1000		PC	850×620×690 ※(840)		1000×625×690 ※(840)		1200×650×850 ※(1160)		1200×700×850 ※(1160)		1250×680×900		1400×680×900		1650×700×1000		1650×730×1000					
750×1160		A1									1200×750×1040		1350×750×1040		1550×750×1160		1600×750×1160		1900×1020×1130		2200×1020×1255	
850	Weight (approx.) (kg)	BS	250		290		410		530		540		610		850		900					
750		B	235		260		350		420		500		560		750		810					
695		PC	225		240		345		440		470		544		695		740					
640		A1									410		465		640		670		1150		1260	

FEATURES

High Performance

FV GENERATOR SET gives full play to good Performance under such bad conditions as a high temperature or a high humidity.

Easy Operation

FV GENERATOR SET equips an integrated operation panel, so operations are very easy and has a construction switch is easy to get a generating power.

FV GENERATOR SET fitting out fuseless circuit breaker needs no troublesome fuse exchange.

Easy maintenance

FV GENERATOR SET requires no maintenance like machine inspection or brush exchange over a long time because of brushless construction switch doesn't have carbon brushes & slip rings at all.

FV GENERATOR SET is free from radio interference and spark outbreak according to brushes contact, breakdown do to carbon dust.

Engine(KUBOTA/ISUZU)

Light-weight & compact KUBOTA/ISUZU engines with high performance ensure clean exhaustgas, low noise level & low fuel consumption.

AVR-System

FV efficient AVR system keeps output voltage within 1.5% of the rated voltage from no load to full load at load power factor of 1.0 sudden load changes have been the main cause of damage to conventional AVR's.

FV series generators are equipped with AVR system which resists such damage. The system also features easy motor starting (for refrigerators air-conditioner, etc.) and prevents damage from overloading.

Automatic Safety Shut Down Devices

- High water temperature
- Low lubricating oil pressure

AMF Terminals

AMF terminal is option.



Wide door & Easy maintenance



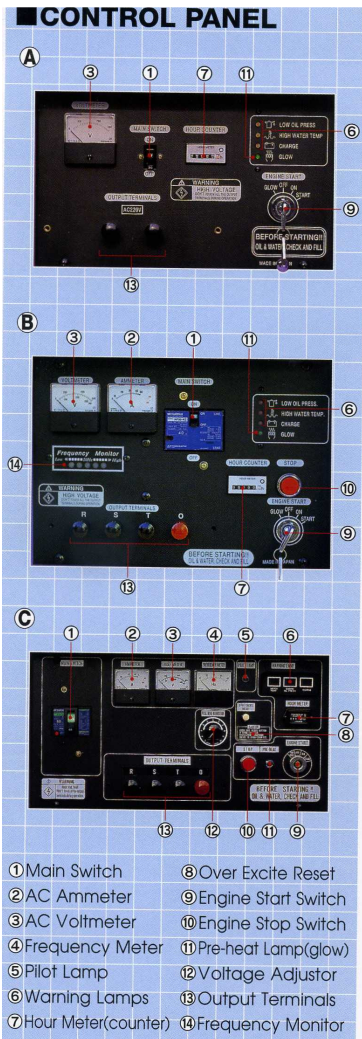
Model:FV-28TDKB



Model:FV-40TDKPC

Specifications of Single Phase

GENERATOR																						
Model	FV-6.5SK		FV-7.5SK		FV-11SK		FV-15SK		FV-20SK		FV-14SDK		FV-21SDK									
Item	50	60	50	60	50	60	50	60	50	60	50	60	50	60								
Frequency (Hz)	50	60	50	60	50	60	50	60	50	60	50	60	50	60								
Output (kw)	Stand-by	5.6	6.6	6.5	7.5	9.7	11.5	13.7	15.8	17.8	21.1	12.0	14.7	16.4	21.0							
	Prime	5.0	6.0	5.6	6.6	8.4	10.0	12.0	14.0	16.0	18.8	11.2	14.0	15.6	20.0							
Type	Revolving-field type AC Generator (Brushless)																					
Excitation	Brushless, self-excitation																					
Rated speed(min ⁻¹)	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600	1500	1800	1500	1800								
No. of pole	2						4															
Phase / wire	Single Phase / 2(4) wire																					
Voltage	220,230,240, (110/220,120/240) V required																					
Power factor	1.0																					
Class of insulation	F-class (both stator & rotor)																					
Type of coupling	Direct coupling (single bearing)																					
Voltage regulation system	Condenser						AVR															
Voltage regulation	±5.0%						±1.5%															
ENGINE																						
Model	KUBOTA																					
Item	Z482B			D722B			D1005B			V1305B			D1703B			V2203B						
Type	Vertical, Water-Cooled, 4-Cycle Diesel																					
Cylinders	2 cylinders			3 cylinders			4 cylinders			3 cylinders			4 cylinders									
Displacement	0.479ℓ			0.719ℓ			1.001ℓ			1.335ℓ			1.647ℓ			2.197ℓ						
Rated output	PS	9.3	11	9.3	11	14	16.5	19.3	22.8	25.9	30.4	18.5	22.4	25.0	32.2							
	kW	6.8	8.1	6.8	8.1	10.3	12.1	14.2	16.8	19.1	22.4	13.6	16.5	18.4	23.7							
Fuel consumption (at full load)	ℓ/h	2.2	2.7	2.2	2.7	3.1	4.1	4.5	5.6	5.9	7.4	3.9	4.8	5.4	6.9							
Fuel tank Capacity	20ℓ						40ℓ															
Starting system	Electric-12V DC																					
Automatic safety shut down	Low oil Press / High water temperature																					
SET																						
Sound level(at 7m) Type-BS	66dB	68dB	66dB	68dB	64dB	68dB	66dB	68dB	67dB	69dB	63dB	64dB	63dB	66dB								
Dimension (approx.) (mm)	BS	1050×600×690			1250×640×690			1450×720×860			1600×720×900			1500×700×900			1750×700×900					
	B	1000×600×690			1000×625×690 ※(840)			1200×650×850 ※(1160)			1200×700×850 ※(1160)			1300×680×900			1450×680×900					
	PC	850×620×690 ※(840)			1000×625×690 ※(840)			1200×650×850 ※(1160)			1200×700×850 ※(1160)			1250×680×900			1400×680×900					
	A1	—			—			—			—			1200×750×1040			1350×750×1040					
Weight (approx.) (kg)	BS	236			250			290			410			530			540			610		
	B	220			235			260			350			420			500			560		
	PC	210			225			240			345			440			470			544		
	A1	—			—			—			—			—			410			465		



Accessories

Parts	Model	6.5S/7S	15S/20S	14SD/21SD	9T/14T	20T/27T	19TD/28TD
		11S		30SD			40TD/47TD
		A	B	C	A	B	C
AC Voltmeter		S	S	S	S	S	S
AC Ammeter		O	S	S	O	S	S
Frequency meter		O	O	S	O	O	S
Frequency monitor		O	S	O	O	S	O
Voltage adjustor		N	O	S	N	O	S
Main switch		S	S	S	S	S	S
Pilot lamp		N	N	S	N	N	S
Engine start switch		S	S	S	S	S	S
High water temperature lamp		S	S	S	S	S	S
Low lub. oil pressure lamp		S	S	S	S	S	S
Charge lamp		S	S	S	S	S	S
Pre-heat lamp (glow)		S	S	S	S	S	S
Hour meter (counter)		S	S	S	S	S	S
Engine stop switch		N	S	S	N	S	S
Output terminals		S	S	S	S	S	S
Over excite reset		N	N	S	N	N	S
Ammeter selector switch		N	N	N	N	N	O
Voltmeter selector switch		N	N	N	N	N	O
Wheel		O	O	O	O	O	O

S Standard O Option N Not Available

Optional Equipment

AMF PANEL

Automatic Mains Failure Panel

An automatic wall-mounted mains failure back-up switching device is available as an option with FV gensets. In the event of a power blackout, the device automatically start the genset's engine and then transfers the load to the genset's. After mains recovery, the device transfers the load back to the main and stops the engine.

Characteristics

- Auto charging system
- Auto maintenance running
- Over-speed protection
- Start at mains Low/High voltage and stop at normal voltage

