

GENERATOR

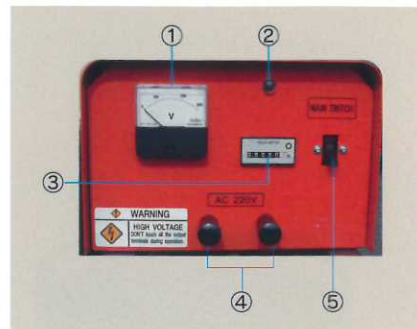
Standard Accessories

Model	Engine		Control panel								Unit	
	Starting handle	Tools for maintenance	Voltmeter	Output terminal	Main switch	Pilot lamp	Ammeter	Frequency monitor	Hourmeter	Single phase receptacle	Operation manual	Caster
F-5~14	1	1	1	1set	1	1	optional	optional	1	optional	1	optional
TF-5~18	1	1	1	1set	1	optional	1	1	1	optional	1	optional

Note : All data subject to alteration without notice.

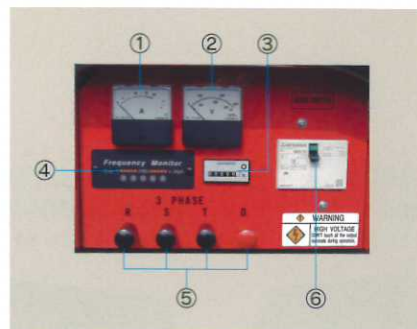
Control Panel

Single phase



- ① Voltmeter
- ② Pilot lamp
- ③ Hourmeter
- ④ Output terminals
- ⑤ Main switch (No fuse breaker)

Three phase



- ① Ammeter
- ② Voltmeter
- ③ Hourmeter
- ④ Frequency monitor
- ⑤ Output terminals
- ⑥ Main switch (No fuse breaker)

WELDER

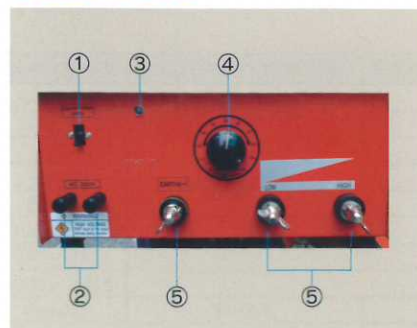
Standard Accessories

Model	Engine			Control panel							Unit		
	Starting handle	Tools for maintenance	Engine Start switch	Aux. Power switch	※Output terminals	Pilot lamp	Ampere Control	Welding Terminals	Engine Start switch	Auto Idling Switch	Operation manual	4-Caster	2-wheel with handle
WF-180E~WF-330E	1	1	1	1	1set	1	1	1set	—	—	1	1set	—
WF-180E-2~WF-330E-2	1	1	1	1	1set	1	1	1set	—	—	1	—	1set
WF-250R-AC	—	1	—	1	1set	1	1	1set	1	1	1	—	1set

※High frequency light only Note : All data subject to alteration without notice.

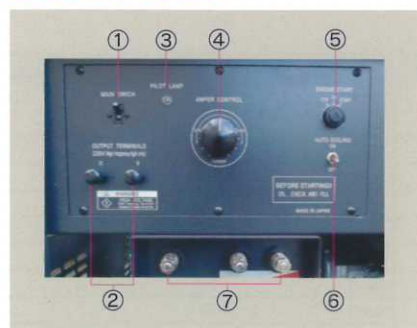
Control Panel

Diesel Welder



- ① Aux. Power switch
- ② Output terminals (High Frequency light only)
- ③ Pilot lamp
- ④ Ampere Control
- ⑤ Welding Terminals

Gasoline Welder

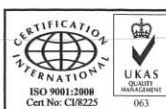


- ① Aux. Power switch
- ② Output terminals (High Frequency light only)
- ③ Pilot lamp
- ④ Ampere Control
- ⑤ Engine Start
- ⑥ Auto idling switch
- ⑦ Welding Terminals

Manufactured by

TOYO ELECTRIC INC.

FAX: 81-3-3553-8264
E-mail: totech@sb3.so-net.ne.jp



Exclusive Agent

TOSHIN TECHNICA CORP.

M&S BUILDING 4F 1-6-12, SHINKAWA, CHUO-KU.
TOKYO 104-0033
P.O. BOX 185, KYOBASHI, TOKYO
TEL: (03)3553-8262/3
FAX: (03)3553-8264
E-mail address: totech@sb3.so-net.ne.jp



Long Life and High Quality
Easy Maintenance

High
FUJI
DELUXE

Made
in
JAPAN

GENERATOR

Powered by

YANMAR



MODEL: F-5E

MODEL: TF-10E

WELDER



MODEL: WF-270E-2
(2-wheel with handle)

MODEL: WF-270E
(4-caster)

MODEL: WF-250R-AC
(2-wheel with handle)

Powered by

YANMAR
& **Robin**

BRUSHLESS DIESEL

GENERATOR

Alternator Concept

Brushless revolving field type. Carbon brushes and slip-rings are not used. Silicon rectifier built-in revolving field is in use.

Maintenance-free

Because of brushless, no regular maintenance is required. More than 95% of maintenance from alternator is said to come from carbon brushes and slip-rings in case of traditional slip-ring alternators.

No wave interference

Because of brushless, no measurable wave interference is developed.

Safety Devices

When the engine oil exceeds 120°C, power generation is stopped.
※Only AVR model

Engine Concept

Horizontal single cylinder, 4 cycle, full diesel engine, water cooled with radiator, totally enclosed with automatic lubrication, and dust proof.

Fuel oil economy, easy handling, of the largest production in these range in the world from reputable Japanese diesel engine manufacturers.

High FUJI DELUXE Frame type

●Single phase F-5(E)



High FUJI DELUXE Frame type

●Single phase F-8.5(E)~14(E)
●Three phase TF-5(E)~18(E)



BRUSHLESS DIESEL & GASOLINE

WELDER

Brushless

No carbon brushes or slip rings. Instead, silicon rectifier built-in field is incorporated.

Maintenance-free

There are no carbon brushes, slip rings or commutator, so maintenance is almost eliminated.

No wave interference

There are no brushes, so no wave interference is generated.

Stable arc

High frequency welder (220-250Hz) making arc as stable as that of DC welder.

YANMAR TF & TS type diesel engines

- Lower fuel costs.
- Low maintenance costs.
- Dust proof.
- Unattended operation.

High FUJI DELUXE Diesel WF series

●4-Caster type WF180E~330E



High FUJI DELUXE Diesel WF-2 series

●2-Wheel type WF180E-2~330E-2



High FUJI DELUXE Gasoline WF-AC

●2-Wheel type WF250R-AC



Specifications

GENERATOR	MODEL	F-5(E)	F-8.5(E)	F-10(E)	F-12(E)	F-14(E)	TF-5(E)	TF-7.5(E)	TF-10(E)	TF-12.5(E)	TF-15(E)	TF-18(E)		
	Capacity	KVA	5.0	8.5	10.0	12.0	14.0	5.0	7.5	10.0	12.5	15.0	18.0	
	Kw	5.0	8.5	10.0	12.0	14.0	4.0	6.0	8.0	10.0	12.0	14.4		
Frequency(Hz)/Revolutions(min ⁻¹)	—	50/3000 or 60/3600												
No. of phase	—	Single phase					Three phase(4wire type)							
Power factor	—	1.0												
Excitation system	—	Brushless, self-excitation system												
Drive system	—	V-belt drive												
Voltages	V	AC 200, 230, 240 (110/220, 120/240)V required					AC 200V~480V required							
Voltage regulation	—	Condenser					AVR (Automatic Voltage Regulation)							
Type	—	Semi-enclosed, drip-proof, self ventilated												
Insulation class	—	Stator. E					Rotor. F							
Safety Devices	—	Not Available					Power generation stops when the temperature oil exceeds 120°C							
ENGINE	MODEL	YANMAR												
	Type	—	Horizontal, water-cooled 4-cycle, diesel engine											
	Bore × Stroke	mm	85×87	96×105	102×105	110×106	112×115	78×80	88×96	96×105	102×105	110×106	112×115	
	Displacement	ℓ	0.493	0.760	0.857	1.007	1.132	0.382	0.583	0.760	0.857	1.007	1.132	
	Continuous rating Output	kW	6.3	9.3	10.4	11.9	14	4.5	7.5	9.3	10.4	11.9	14	
		hp	8.5	12.5	14.0	16.0	19.0	6.0	10.0	12.5	14.0	16.0	19.0	
	Revolutions	min ⁻¹	2400			2200			2400			2200		
	Compression ratio	—	18.0	17.8	17.8	16.3	16.3	18.1	17.9	17.8	17.8	16.3	16.3	
	Starting system	—	Hand (Electric)											
	Cooling system	—	Radiator											
	Lubricating system	—	Forced lubrication with trochoid pump											
	Combustion system	—	Direct injection											
	Fuel consumption(at 70% load)	ℓ/h	1.6	2.2	2.5	3.0	3.5	1.3	1.8	2.2	2.5	3.0	3.5	
Fuel tank capacity	ℓ/h	10.5	14.3	14.3	13.7	21.5	7.1	11.0	14.3	14.3	13.7	21.5		
UNIT	Dimensions (L×W×H)	mm	1090×490×610	1350×640×720	1350×640×720	1470×660×780	1570×660×840	1100×550×630	1200×550×650	1350×640×720	1350×640×720	1470×660×780	1570×660×840	
	with 4 caster	mm	1090×490×760	1350×640×870	1350×640×870	1470×660×930	1570×660×990	1100×550×780	1200×550×800	1350×640×870	1350×640×870	1470×660×930	1570×660×990	
	Net Weight	kg	195	330	335	440	480	210	260	340	345	450	485	
	with 4 caster	kg	201	337	342	447	487	216	267	347	352	457	492	

Specifications

WELDER	Model	WF-180E	WF-180E-2	WF-250E	WF-250E-2	WF-270E	WF-270E-2	WF-330E	WF-330E-2	WF-250R-AC		
	Welding current	A	60~180		70~250		70~270		70~330		70~250	
Rated current	A	150		230		250		300		230		
Rated voltage	V	30		32		32		35		32		
Welding capacity	kW	5.4		8.0		8.6		11.6		8.0		
No load voltage	V	65~70				70~75				70~75		
Rated use	%	70										
Frequency	Hz	220~240										
Rated speed	min ⁻¹	4400~4800										
Welding rod	mm	2.6~4		2.6~5				2.6~7		2.6~5		
Auxiliary power (Light only)	kW	1										
Cable cable size Recommended(40-60m)	mm ²	22~38				38~50			22~38			
ENGINE	Model	YANMAR									Robin	
	Type	—	Horizontal, water-cooled 4-cycle, diesel engine									V-Twin, 4-cycle gasoline engine
	No of cylinders-Bore ×stroke	mm	1-88×96		1-96×105		1-102×105		1-110×106		2-80×65	
	Cont. rating	kW	7.5		9.3		10.4		11.9		12.0	
		hp	10		12.5		14		16		16.1	
		mm ⁻¹	2400		2400		2400		2200		3600	
	Displacement	ℓ	0.583		0.760		0.857		1.007		0.653	
	Starting system	—	Electric									
	Cooling system	—	Radiator									
	Lubricating system	—	Forced lubrication with trochoid pump									
	Lub oil capacity	ℓ	2.8		3.0		3.4		3.4		1.5	
	Fuel consumption	ℓ/h	1.8		2.2		2.5		3.0		4.7	
	Fuel tank capacity	ℓ	11.0		14.3				13.7		44	
UNIT	Dimensions (L×W×H)	1200×560×660		1350×600×715		1350×600×715		1470×700×785		950×700×810		
	with 4 caster	mm	1200×560×860	—	1350×600×920	—	1350×600×920	—	1470×700×990	—		
	with 2 wheel & handle	mm	—	1520×560×820	—	1650×600×875	—	1650×600×875	—	1790×700×945		
Net Weight	kg	275	—	340	—	345	—	490	—	—		
	with 2 wheel & handle	kg	—	285	—	350	—	355	—	205		