

Power of Next Generation

SAWAFUJI ELECTRIC CO., LTD.

PRODUCTS

Compact Diesel Type(5.5 - 10.2kVA)

Diesel Generators

SHX8000Di (7.0kVA) SHX12000Di (10.2kVA)



FEATURES

- High Performance Diesel Engine

Yanmar 2TNV70-ASG Compliant with EPA TIER 4 FINAL

Variable 2300 - 3400 rpm contributes to reduced fuel consumption and minimizing noise levels

- SPECIAL INVERTER for Pure Sine Wave Output

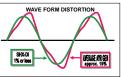
High quality, pure sine wave electrical output is ideal for sensitive equipment like PC and TVs.

- SAWAFUJI PMA (Permanent Magnet Alternator)

The PMA incorporates SAWAFUJI's state of the art winding technology and is 60% smaller than conventional alternators.

- SMART Multi LED Display *3

Shows rpm, cumulative running hours, and error messages for self-diagnostics.



*1: Inverter



*2: PMA



*3: Contorol Panel

SHO7D (5.5 - 6.5kVA)



LINE UP SH07D/SH11D

FEATURES

- Best-in-the-industry Engine

Kubota Z482 (SH07D) / D722 (SH11D) The life of the genset is second to none with sufficient power exceeding your expectations.

- Emergency Auto Shutdown

Stops the engine automatically when it lacks enough oil or if water temperature overheats or output terminal cover is opened.

- Connectable with ATS (Automatic Transfer Switch)

When connected with ATS, the generator auto-starts when the utility power fails.





Type R



Type LD

Heavy Duty Gasoline Type (8.5 - 11.8kVA)

Gasoline Generators

SH11000 (8.5 - 9.5kVA)



FEATURES

- Powerful Gasoline Engine Honda GX630 15.1kW Air-Cooled OHV V-TWIN Engine

- Control Panel

Easy to see and easy operation. Standard features:V-meter, Hour-meter, Pilot Lamp

LINE UP SH11000/SHT11500







Three Phase



Heavy Duty Diesel Type (12 - 22kVA)

SPEC 5P

SH15D (12 - 13kVA)



LINE UP SH15D/SHT15D/SHT17D



SHT25D (20 - 22kVA)



FEATURES

-High Performance Diesel Engine ^{*1}

Kubota D1005 Vertical water-cooled,4-cycle diesel engine The D1005 diesel engines ensure greater power, more efficient combustion, and cleaner emissions. -Control Panel ^{*2}

Easy to see and easy operation.

-Automatic Air Bleeding

This system reduces troublesome maintenance procedures by automatically removing air from the fuel line.

-Safety System

Emergency unit detects abnormally low oil pressure or high coolant temperature and stops engine automatically to prevent damage.

-Large Capacity Fuel Tank

The larger capacity fuel tank enables longer periods of continuous operation.

-One Side Maintenance

Oil,fuel,water,and filters are all located on one side for easy maintenance.

-ATS(AMF)Terminals

ATS terminals are standard equipment.

FEATURES

- High Performance Diesel Engine Kubota V2203-B

- Brushless Alternator STAMFORD PI144D
- Control Panel *4
- Automatic Air Bleeding
- Safety System
- Large Capacity Fuel Tank
- One Side Maintenance
- ATS(AMF) Terminals





*3: Kubota V2203-B



*4: Contorol Pamel

ĥP

SH13000 (10 - 11.8kVA)



FEATURES

- More Powerful Gasoline Engine

Robin EH72-2DS 17.2kW Air-Cooled OHV V-TWIN Engine

- Control Panel

Easy to see and easy operation. Standard features: V-meter, Hour-meter, Pilot Lamp

LINE UP SH13000/SHT15000





SPEC

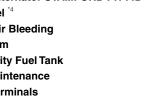


Three Phase





*2: Contorol Pamel







PRODUCTS

EX Series(2.2 - 6.5kVA)

Gasolin<u>e Generators</u>

SPEC 5P

SH3200EX



SH7600EXS



FEATURES

- Honda OHV 4-stroke Engine

Provides high power,outstanding fuel economy.Fuel consumption is nealy 30% less than comparable side-valve engines.

- Automatic Voltage Regulator(AVR)

ELEMAX's AVR smooths power output fluctuations to enable operation of sensitive electronic equipment.

- Large Fuel Tank

17 liter fuel tank for SH3200EX,SH3900EX and 28 liter fuel tank for upper model realize exceptionally long operating hours.

- 10% to 25% Increased Output Power Compared to DX series 1

Rated output power has been increased from 10 to 25% compared to DX series. This power up is provided by newly designed Sawafuji square core alternator.

- New Designed Control Panel^{*2}

Not only new attractive outlook designe, safety and water resistance are also improved.

- Improved Frame Designe

Welded upper bar and widen diameter of the frame pipe are significantly improved the outlook image and protect the machine from rough handling and damage.









LINE UP SH3200EX/SH3900EX/SH4600EX/ SH5300EX/SH6500EX(S)/SH7600EX(S)



FEATURES

- Honda OHV 4-stroke Engine
- Saddle type Control Box with 2 AC Outlets
- Compact, Light Weight and Solid



FEATURES

- Honda OHV 4-stroke Engine
- 190amps Maximum DC Power for Welding
- 17 liter Large Capacity Fuel Tank with Fuel Gauge
- Compact and Light Weight
- Stable-Arc 6-Phase Half Wave Current for Welding

SHX Series(900 - 1500W)

Portable Gasoline Generators

SHX1000







SHX2000



FEATURES

-Advanced Technology ³

Newly designed Multi-pole Alternator and high speed engine dramatically reduced the size and weight.

-Honda 4-stroke Engine

Honda multi purpose engine has been industry standard for reliability and durability in the world. Also guaranteed with just a light pull on the recoil starter.

-Long Operating Hours

Large fuel tank allows efficient work without refueling.

-Portability

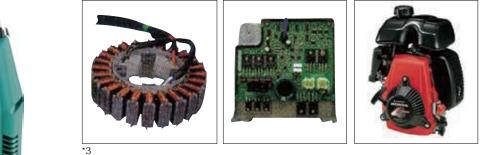
These models are especially easy to carry.

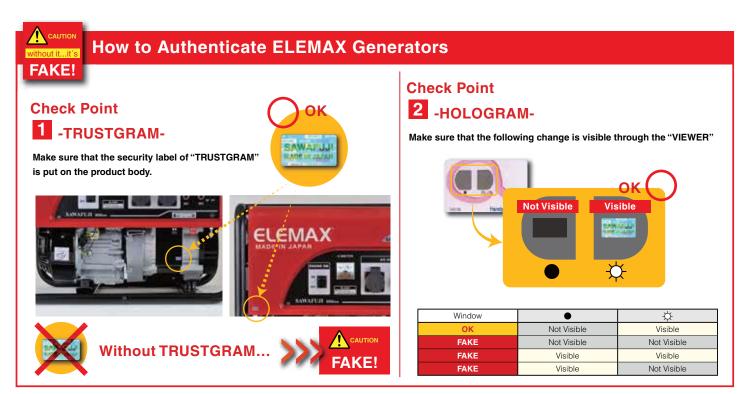
-Lower Sound Level(Silent and Power mode)

This unique designed silent mode for SHX1000 provides extremely lower sound level with 3/4 load.Just in case to take full load,only to change to Power mode.

-Compact & Light Weight

The SHX1000 weighs only 13.6kg,The SHX2000 weighs only 21kg,less than half of the weight of similar capacity conventional generator.





1500 w

SPECIFICATIONS

EX Series Gasoline Generators

3P FEATURES

ausonne (acherators							U	TENTONEO			
Models				SH3200EX	SH3900EX	SH4600EX	SH5300EX	SH6500EX	SH7600EX			
Туре				R-type; 220V(50Hz), S-type; 220V(60Hz), D-type; 110/220V(60Hz), LD-type; 120/240V(60Hz)								
	Frequency (Hz)			50, 60								
	Туре					Self-Exciting, 2-pole	e, Field Rotating Type	е				
	Voltage Regulation System	m					VR					
	Phase						ngle					
		Rated Power (KVA)	50Hz	2.2	2.8	3.2	3.8	5.0	5.6			
Generator			60Hz	2.5	3.2	3.8	4.4	5.6	6.5			
	AC Output (KVA)	Maximum Power (KVA)	50Hz	2.6	3.3	4.0	4.7	5.8	6.5			
			60Hz	3.2	3.9	4.6	5.3	6.5	7.6			
		Rated Voltage (V)			R;220(50Hz	z), S;220(60Hz), D;1		20/240(60Hz)				
	DC Output (V-A)			12V-8.3A								
	Rated Power Factor (cos)		1.0								
	Maker				nda							
	Models			GX160 163	GX200 196	GX240	GX270	GX340	GX390			
		Displacement (CC)				270	270	389	389			
Engine		Net Power (kW) 3,600rpm			<u>3.6</u> <u>4.1</u> <u>5.9</u> <u>6.3</u> <u>8.0</u> <u>8.7</u>							
	Ignition System			Transisitor								
	Oil Alert System			YES								
	Starting System					coil			P;Electric)			
	L x W x H (mm)				135 X 491			48 X 493				
	Dry Weight (kg)			44	46	63	68	75	78			
	Fuel Tank Capacity (litres)		64	17			28				
Others	Sound Level (dB) [dB(A)/	Sound Level (dB) [dB(A)/7m]			65	63	70	71	73			
		60Hz			69	71	72	75	76			
	Continuous Operating Ho	urs (h)	50Hz	14	10	14	12	10	8.5			
			60Hz	12	8.8	11	10	7.9	7.2			

SHX Series

Portab	le Gasoline	Generators							4	FEATURES			
Models				SH	X 1000			SHX	2000				
Туре			R	G	S	L	R	G	S	L			
	Frequency (Hz)			50	6	60		50	6	C			
	Engine Speed (r	pm)		5800/4100(Powe	er Mode/Silent Mode			45	500				
	Waveform					Square	e-Wave						
		Maximum Power (W)			1000		1900	1700	19	00			
Generator	AC Output	Rated Power (W)			900				500				
		Rated Voltage (V)	220	230	220	120	220	230	220	120			
	DC Output					ly for Charging 12\	/ Automotive Batte						
			Maximum C	harging Output =	8.3/4.2 A(Power Mod			Maximum chargi	ing output = 8.3A				
	Insulation Class		В										
	Maker					Ho	onda						
Engine	Models				iXH50			GX100					
Lingine	Туре				V 4-stroke Gasoline				4-stroke Gasoline				
	Displacement (C	C)			49.4				3.5				
	L x W x H (mm)				265 x 380		560 x 340 x 415						
	Dry Weight (kg)		13.6	14.0	13.6	13.6	21.0	22.0	21.0	21.0			
	Fuel Tank Capad				3.8		7.7						
	Sound Level	[dB(A)/7m]			1/2 load)		63(1/2 load)						
		[dB Lwa]			3/4 load)		93(3/4 load)						
	Continuous Ope	rable Hours	5.5(rated load) 8.6(1/2 load) 7										
Others	Pilot Lamp		LÉD										
Outors	Power Indicator						ED						
	Oil Alert System					Y	ES						
	Engine Stop				with Fuel Cock				r Switch				
	AC	Output		Plug Socket x 1	1			Plug Socket x 2					
		Protective Device					l Circuit						
	DC	Output					minal						
		Protective Device				Thermal Type	Circuit Breaker						

HEAVY DUTY Type

						<u> </u>									
Diese	l Gei	nerat	ors									1-2P	FEAT	URES	
Models				SH07D		SH11D		SH15D		SHT15D	SHT17D	SH20D	SHT	25D	
Туре				R	LD	R	LD	R	D	R	S	LD	R	S	
	Freque	ency (Hz)	50 60 50 60		50	60	50	60	60	50	60			
	Туре						g, 2-pole,	Field R	otating T			Sefl-exciting, 4-p	ole, brushless, Fi	eld Rotating Type	
	Phase				Sin	gle		Sin	igle	Th		Single	Th	ree	
	Voltage	Regulation									AVR				
Generator		Rated Power			.5	-	3.0		2		5	-		0	
	AC	(KVA)	60Hz	6	.5	1	0.0	1	3		6.3	19		2	
	Output Rated Voltage (V) Rated Power Factor (cos				120/240	220	120/240	220	120/240	Single Ph Three Ph		120/240		ase : 220 ase : 380	
	Rated Po	ower Facto	or (cos)		1.	.0		1	.0	0.	.8	1.0	0	.8	
	Maker				Kubota										
	Models	S		Z482 D722				D1005					V2203-E		
Engine	Displacement (CC)		(CC)	479 719				10	01			2197			
	Maximum Horse Power (PS)		8.1(3,600rpm) 12.2(3,600rpm)				26(3,6			32.	2(1,800r	om)			
		g Systen		Electric Starter											
		x H (mm		1066 x 618 x 698 1281 x 618 x 698			1474 x 698 x 869				1660 x 690 x 900				
		eight (Kg		2	35		95	387				540			
		k Capacity			2				5				72		
	Sound		50Hz	66.5	-	68.0	-	68.0	-	68.0	-	-	66.0	-	
	[dB(A)		60Hz	-	67.5	-	69.0	-	71.0	-	71.0	72.0	-	71.0	
	Continuo	us g Hours (h)	50Hz	15.6	-	11.2	-	10.8	-	11.8	-	-	17.6	-	
Others			60Hz	-	13.3	-	8.5	-	9.0 YES	-	9.0	14.3	-	15.2	
	Volt Meter Ampere Meter				N	0				-S		NO	VI	-S	
	Hour N				IN	0			YES	-5		INU	Ť	-5	
		na Liahts			YF	S				dicator I	ihts (4-r	conditions)			
	Output	0 0		F	R: Plug S D: Plug S	ocket x	2,			cket x 2	-1110 (4-0	Terminal & Socket	rminal & Torminal		
	ATS Te	rminals					-		YES						

SHX Series

Diese	l Gei	nerato	ors		1P 🗲	EATURES				
Models				SHX8	000Di	SHX12	2000Di			
Туре				R	LD	R	LD			
Frequen				50	60	50	60			
	Туре			Permanent Magnet, Multi-Pole Alternat						
	Phase				Sin					
	Voltage	e Regulati	on System		Inve	rter				
	Wavef				Pure Sir					
Generator	Output		ower (kVA/kW)	7.	.5	11	.0			
	Output	Rated pow	er (kVA/kW)	7.	0	10	0.2			
	Voltag	e(V)		220	120/240	220	120/240			
	Currer			31.8	2 x 31.8-31.8		2 x 46.4-46.4			
			actor (cos)		1.					
	Maker				YAN					
	Mode			2TNV7		3TNM6				
[icement i		0.5		0.784				
Engine		output (I		9.3/3			3600			
Lingine		e speed(2300 - 340					
		ig Syster	n		Electric					
	Fuel				-uel (BS286					
		y (5HR)				12 - 36 (46B24L)				
		x H (mm			47 x 686	1184 x 670 x 770				
		eight (kg		25		278				
	Fuel T	ank Capa		30.0		40.7				
	Source	llevel	25% load	63		64.0				
	[dB(A		75% load	65		66.0				
	[00() ("]	100% load	67		68.0				
	Fuel		25% load	1.			.6			
Others		umption	50% load	1.		2.				
	(litres)		75% load	2.			.2			
			100% load	3.		4.	.3			
	Volt M				YE	S				
	Hour I				YES (LEC					
		ng Lights				1 37				
	Outpu			R Type: Plu	g Socket x 3,		Socket x 5			
	ATS Te	erminal			YE	S				

HEAVY DUTY Type

Gasoli	ne Generator	S							1-2	2P FEATURES			
Models				SH1 ⁻	1000	SHT1	1500	SH13000		SHT15000			
Туре				R	LD	R	S	R	LD	R			
	Frequency (Hz)			50 60 50 60 50 60 50									
	Туре			Self-exciting, 2-pole, Field Rotating Type									
		ge Regulation System					AVR						
	Phase			Sin	gle	Thi	ree	Sin	gle	Three			
Generator		Rated Power (KVA)	50Hz	8.5	-	10.0	-	10.0	-	12.0			
		Thated Tower (ICVA)	60Hz	-	9.5	-	11.5	-	11.8	-			
	AC Output (KVA)	Maximum Power (KVA)	50Hz	10.0	-	11.5	-	11.0	-	-			
			60Hz	-	11.0	-	13.0	-	13.0	13.2			
		Rated Voltage (V)		220	120/240	220/380	220/380	220	120/240	220/380			
	Rated Power Factor	(cos)		1.		0	.8	1.	0.8				
	Maker				Hor		Robin						
	Models				GX				EH72-2DS				
	Displacement (CC)			68				720					
Engine	Net Power (kW)		3,600rpm		15	5.1			17.2				
	Ignition System						Transistor						
	Oil Alert System			YES									
	Starting System						Electric Starter						
	L x W x H (mm)			924 x 665 x 636/804 (with wheel)									
	Dry Weight (kg)	without wheel				58		175					
		with wheel		165 183									
	Fuel Tank Capacity(I	iters)					38						
Others	Sound Level [dB(A)/	7m]	50Hz		7	4		76.0	-	76.0			
Othoro		,,,,,	60Hz		,			-	78.0	-			
	Continuous Operatir	a Hours (h)	50Hz	7.0	-	7.0	-	5.5	-	5.5			
			60Hz	-	6.2	-	6.2	-	4.5	-			
	Cooling System						Forced Air						
	Engine Oil Refill Capacity	(liters)		1.8 (v	vith filter replaced) / '	 1.5 (without filter replace 	aced)	1.55L (inclusive of those in	oil filter)			

STANDARD Series

Gasoli	ne Ger	nerators	;					3P	FEATURES	
Models					SH 1900	SH 2900	SH 4000	SH 5000	SH 6000	N
Туре					R-type; 2	220V(50Hz), S-	type; 220V(60ł	Hz), L-type; 12	0V(60Hz)	1 Гт
	Frequen	cy (Hz)					50, 60			1
	Туре					Self-Exciting	, 2-pole, Field I	Rotating Type		
		Regulation S	System				AVR			
	Phase						Single] G
Generator		Rated Pow	ver	50Hz	1.3	2.0	2.7	3.2	4.0	
Generator	AC	(KVA)		60Hz	1.5	2.3	3.0	3.6	4.5	
	Output	Maximum	Power	50Hz	1.6	2.4	3.7	4.5	5.5	
	(KVÅ)	(KVA)		60Hz	1.9	2.9	4.1	5.0	6.0	
		Rated Volt					220,120			
		ower Factor	(cos)				1.0			Ηv
	Maker						Honda	-] I `
	Models				GX120	GX160	GX240	GX270	GX340	
		ement (CC)			118	163	270	270	389	
Engine	Net Pow		3,60	0rpm	2.6	3.6	5.9	6.3	8.0	
	Ignition S						Transistor			
	Oil Alert	System					YES			
	Starting	System					Recoil] E
	LxWxH	H (mm)			560 x 42	22 x 422	605 x 4	95 x 490	605 x 511 x 490	
	Dry Weig	ght (kg)			29	34	51	54	65	
	Fuel Tan	k Capacity (liters)		2.5	3.6	6.0	6.0	6.5	
Others	Sound L	evel [dB(A)/	7m]	50Hz	69	70	72	72	73	
	Sound L	ever [ub(A)/	/inj	60Hz	71	72	74	75	76	
		ous Operatin	ng	50Hz	3.1	3.7	3.6	3.3	2.8	
	Hours (h)	-	60Hz	2.1	2.5	3.1	2.7	2.3] C

WELDER Generator *1 : Only R,S type *2 : only Electric starter type

3-4P FEATURES **Gasoline Welder Generator** Models Type SHW190 S R Т Frequency (Hz) 50 60 2-pole, Field Rotating Type Type Phase Single 50Hz 60Hz Generator AC Output (KVA) 2.0 Rated Power (KVA) 4.0 110 3.0 (KVA) Rated Voltage (V) Rated Power Factor (cos) 220 2-pole, Field Rotating Type Six Phase Half Wave Rectifier 140A 26V 50 - 190 50 2.6 to 5.0 mm dia. Type Rectifier Type Rated Output Current Control Range (A) Rated Duty Cycle (%) Welding Rod Maker 3,600rpm Welder Maker Models Honda GX390 Displacement (CC) Net Power (kW) 389 8.7 3,600rpm Engine c. / Transistor YES Recoil (OP;Electric) 679 x 511 x 490 Ignition System Oil Alert System Starting System L x W x H (mm) Dry Weight (kg) 88 Fuel Tank Capacity (liters) 73 75 Others 50Hz Sound Level [dB(A)/7m] 60Hz 50Hz 60Hz Continuous Operating Hours (h) 6.2 5.2

	Portable Gasol	line Generators	Gasoline Generators									
	SHX S	Series		EX Series								
Standard Accessory	SHX1000	SHX2000	SH3200EX	SH3900EX	SH4600EX	SH5300EX	SH6500EX	SH7600EX	SHW190			
Owner's Manual	0	0	0	0	0	0	0	0	0			
Plug	*1	*1	0	0	0	0	0	0	0			
Spark plug	-	-	0	0	0	0	0	0	0			
Wrench	0	0	0	0	0	0	0	0	0			
Tool kit	-		-	-	-	-	-	-				
Slow Blow Fuse	-	-	-	-	-	-	-	-	-			
Battery	-		-	-	-	-	-	-	-			
Band hook for battery	-	-	-	-	-	-	*2	*2	*2			
Optional Equipment	SHX1000	SHX2000	SH3200EX	SH3900EX	SH4600EX	SH5300EX	SH6500EX	SH7600EX	SHW190			
Electric Starter	-	-	-	-	-	-	0	0	0			
4-wheel kit	-		-	-	0	0	0	0	0			

		Gasoline Generators										
			STANDARD Series			HEAVY DUTY Type						
Standard Accessory	SH1900	SH2900	SH4000	SH5000	SH6000	SH11000	SHT11500	SH13000	SHT15000			
Owner's Manual	0	0	0	0	0	0	0	0	0			
Plug	0	0	0	0	0	0	0	0	0			
Spark plug	0	0	0	0	0	-	-	-	-			
Wrench	0	0	0	0	0	0	0	0	0			
Tool kit		-	-	-	-	-	-	-	-			
Slow Blow Fuse	-	-	-	-	-	-	-	-	-			
Battery	-	-	-	-	-	0	0	0	0			
Band hook for battery		-	-	-	-	0	0	0	0			
Optional Equipment	SH1900	SH2900	SH4000	SH5000	SH6000	SH11000	SHT11500	SH13000	SHT15000			
Electric Starter	-	-	-	-	-	STD	STD	STD	STD			
4-wheel kit	-	-	-	-	-	STD	STD	STD	STD			
				Diesel G	enerators							
				HEAVY D	UTY Type							
Standard Accessory	SH07D	SH11D	SHX8000Di	SHX12000Di	SH15D	SHT15D	SHT17D	SH20D	SHT25D			
Owner's Manual	0	0	0	0	0	0	0	0	0			

Owner's Manual	0			0	0	0	0	0	0
Plug	0	0	0	0	0	0	0	0	0
Spark plug	-	-	-	0	0	0	0	0	0
Wrench	-	-	-	0	0	0	0	0	0
Tool kit	0	0	0	-	-	-	-	-	-
Slow Blow Fuse	0	0	-	0	0	0	0	0	0
Battery	0	0	0	0	0	0	0	0	0
Band hook for battery	0	0	0	-	-	-	-	-	-
Optional Equipment									
Electric Starter	STD								
4-wheel kit		-	-	-	OPT	OPT	OPT	-	-
			-						



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