



MADE IN JAPAN



SAWAFUJI GENERATORS,
Proudly Made in Japan



ELEMAX

Power of Next Generation

Compact Diesel Type(5.5 - 10.2kVA)

Diesel Generators

SPEC 5P

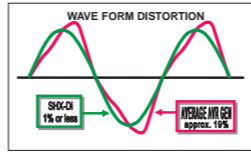
SHX8000Di (7.0kVA)
SHX12000Di (10.2kVA)



	Rated Power	Fuel Tank Capacity
SHX8000Di	7.0kVA (50/60Hz)	30L
SHX12000Di	10.2kVA (50/60Hz)	40.7L

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**^{*1}
High quality, pure sine wave electrical output is ideal for sensitive equipment like PC and TVs.
- **SAWAFUJI PMA (Permanent Magnet Alternator)**^{*2}
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: Control Panel

SH07D (5.5 - 6.5kVA)



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

LINE UP SH07D/SH11D

	Rated Power	Fuel Tank Capacity
SH07D	5.5kVA (50Hz) / 6.5kVA (60Hz)	28L
SH11D	8.0kVA (50Hz) / 10kVA (60Hz)	

Heavy Duty Gasoline Type (8.5 - 11.8kVA)

Gasoline Generators

SPEC 6P

SH11000 (8.5 - 9.5kVA)



FEATURES

- **Powerful Gasoline Engine**
Honda GX630 21.1PS 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

	Rated Power	Fuel Tank Capacity
SH11000	8.5kVA (50Hz) / 9.5kVA (60Hz)	38L
SHT11500	10kVA (50Hz) / 11.8kVA (60Hz)	



Single Phase



Three Phase

Heavy Duty Diesel Type (12 - 22kVA)

SH15D (12 - 13kVA)

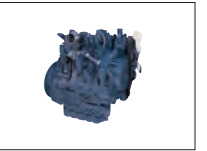


LINE UP SH15D/SHT15D/SHT17D

Rated Power	Fuel Tank Capacity
12kVA (50Hz) / 13kVA (60Hz)	53L

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.



*1: Kubota D1005



*2: Control Panel

SHT25D (20 - 22kVA)



FEATURES

- **High Performance Diesel Engine**^{*3}
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: Control Panel

LINE UP SH20D/SHT25D

Rated Power	Fuel Tank Capacity
20kVA (50Hz) / 22kVA (60Hz)	72L

SH13000 (10 - 11.8kVA)



FEATURES

- **More Powerful Gasoline Engine**
Robin EH72-2DS 25.4PS 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

Rated Power	Fuel Tank Capacity
10kVA (50Hz) / 11.8kVA (60Hz)	38L



Single Phase



Three Phase

EX Series(2.2 - 6.5kVA)

Gasoline Generators

SPEC. 5P

SH3200EX

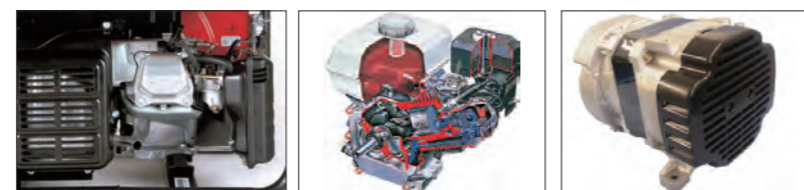


FEATURES

- Honda OHV 4-stroke Engine
Provides high power, outstanding fuel economy. Fuel consumption is nearly 30% less than comparable side-valve engines.
- Automatic Voltage Regulator(AVR)
ELEMEX'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 design, 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.

Rated Power	Fuel Tank Capacity
2.2kVA (50Hz)	17L
2.5kVA (60Hz)	

SH7600EX



*2

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

Rated Power	Fuel Tank Capacity
5.6kVA (50Hz)	28L
6.5kVA (60Hz)	

SHX Series(900 - 1500W)

Portable Gasoline Generators

SPEC. 5P

SHX1000



Rated Power 900W	Dry Weight 13.6kg (R,S,L Type)	Continuous Operating Hours 8.6hr (1/2 load)
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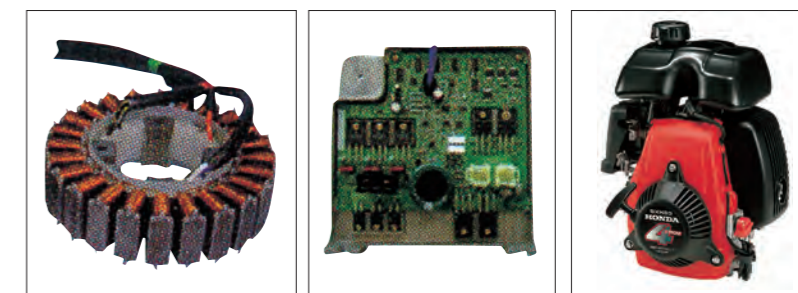
FEATURES

- 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.

SHX2000



Rated Power 1.5KW	Dry Weight 21kg (R,S,L Type)	Continuous Operating Hours 7.0hr (1/2 load)
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*3

STANDARD Series(1.3 - 4.5kVA)

Gasoline Generators

SPEC. 6P

SH2900



FEATURES

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

LINE UP SH1900/ SH2900/SH4000/SH5000/ SH6000

Rated Power	Fuel Tank Capacity
2.0kVA (50Hz)	3.6L
2.3kVA (60Hz)	

WELDER Generator

Gasoline Generators

(140A 26V)

SPEC. 6P

SHW190



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

Welder(DC)	Generator	Fuel Tank Capacity
140A/26V	2.0kVA (50Hz)	17L

ATS Generator(5.0 - 5.5kVA)

Gasoline Generators

SPEC. 6P

SH7000ATS



FEATURES

- Portable generator with ATS
- Generators automatically start to operate in case of an electricity failure. (Black out) [Quick Starts]
- Automatic Battery charge system (Battery maintenance free)
- Protection system against over load and over heat.
- Can be used for standby and portable generator.

Rated Power	Fuel Tank Capacity
5.0kVA (50Hz)	17L
5.5kVA (60Hz)	

SPECIFICATIONS

EX Series

Gasoline Generators						3P FEATURES			
Models	SH3200EX SH3900EX SH4600EX SH5300EX SH6500EX SH7600EX								
Type	R-type; 220V(50Hz), S-type; 220V(60Hz), D-type; 110/220V(60Hz), LD-type; 120/240V(60Hz)								
Generator	Frequency (Hz)	50, 60							
	Type	Self-Exciting, 2-pole, Field Rotating Type							
	Voltage Regulation System	AVR							
	Phase	Single							
	AC Output (KVA)	Rated Power (KVA)	50Hz	2.2	2.8	3.2	3.8	5.0	5.6
			60Hz	2.5	3.2	3.8	4.4	5.6	6.5
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), S:220(60Hz), D:110/220(60Hz), LD:120/240(60Hz)								
DC Output (V-A)	12V-8.3A								
Rated Power Factor (cos)	1.0								
Maker	Honda								
Models	GX160 GX200 GX240 GX270 GX340 GX390								
Displacement (CC)	163 196 242 270 337 389								
Maximum Output (PS)	3,600rpm	5.5 6.5 8 9 11 13							
Ignition System	Transistor								
Oil Alert System	YES								
Starting System	Recoil								
L X W X H (mm)	623 X 435 X 491			708 X 548 X 493					
Dry Weight (kg)	44 46 63 68 75 78								
Fuel Tank Capacity (litres)	17 46 63 68 75 78								
Sound Level [dB(A)/7m]	50Hz	64	65	63	70	71	73		
	60Hz	68	69	71	72	75	76		
	50Hz	14	10	14	12	10	8.5		
	60Hz	12	8.8	11	10	7.9	7.2		

SHX Series

Portable Gasoline Generators						4P FEATURES			
Models	SHX 1000 SHX 2000								
Type	R	G	S	L	R	G	S	L	
Frequency (Hz)	50 60								
Engine Speed (rpm)	5800/4100(Power Mode/Silent Mode)								
Waveform	Square-Wave								
AC Output	Maximum Power (W)	1000							
	Rated Power (W)	900							
	Rated Voltage (V)	220	230	220	120	220	230	220	120
DC Output	Only for Charging 12V Automotive Batteries.								
Insulation Class	Maximum charging output = 8.3A								
Maker	Honda								
Models	GXH50 GX100								
Type	Air Cooled OHV 4-stroke Gasoline								
Displacement (CC)	49.4 98								
L X W X H (mm)	465 X 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 Capacity(litres)	3.8 7.7								
Sound Level [dB(A)/7m]	58(1/2 load)								
	89(3/4 load)								
Continuous Operable Hours	5.5(rated load) 8.6(1/2 load)								
Pilot Lamp	LED								
Power Indicator	LED								
Oil Alert System	YES								
Engine Stop	Interlocking with Fuel Cock								
AC	Output	Plug Socket X 1							
	Protective Device	Control Circuit							
DC	Output	Terminal							
	Protective Device	Thermal Type Circuit Breaker							

HEAVY DUTY Type

Diesel Generators						1-2P FEATURES			
Models	SH07D SH11D SH15D SHT15D SHT17D SH20D SHT25D								
Type	R	LD	R	LD	R	S	LD	R	S
Frequency (Hz)	50 60								
Type	Self-exciting, 2-pole, Field Rotating Type								
Phase	Single								
Voltage Regulation System	AVR								
AC Output	Rated Power (KVA)	50Hz	5.5	8.0	12	15	20		
		60Hz	6.5	10.0	13	16.3	22		
	Rated Voltage (V)	220	120/240	220	120/240	220	120/240	Single Phase : 220 Three Phase : 380	120/240
Rated Power Factor (cos)	1.0								
Maker	Kubota								
Models	Z482 D722 D1005 V2203-B								
Displacement (CC)	479 719 1001 2197								
Maximum Horse Power (PS)	8.1(3,600rpm)		12.2(3,600rpm)		26(3,600rpm)		32.2(1,800rpm)		
Starting System	Electric Starter								
L X W X H (mm)	1066 x 618 x 698		1281 x 618 x 698		1474 x 698 x 869		1660 X 690 X 900		
Dry Weight (Kg)	235 295								
Fuel Tank Capacity (litres)	28 53 72								
Sound Level [dB(A)/7m]	50Hz	66.5	68.0	68.0	68.0	71.0	72.0	71.0	
	60Hz	-	67.5	69.0	71.0	71.0	72.0	71.0	
	Continuous Operating Hours (hr)	50Hz	15.6	11.2	10.8	9.0	9.0	14.3	15.2
	60Hz	-	13.3	8.5	-	9.0	-	15.2	
Volt Meter	YES								
Ampere Meter	NO								
Hour Meter	YES								
Warning Lights	YES								
Output	R: Plug Socket x 2, LD: Plug Socket x 3		Plug Socket x 2		Terminal & Socket		Terminal		
ATS Terminals	YES								

SHX Series

Diesel Generators						1P FEATURES			
Models	SHX8000Di SHX12000Di								
Type	R	LD	R	LD	R	LD	R	LD	
Frequency (Hz)	50 60								
Type	Permanent Magnet, Multi-Pole Alternator								
Phase	Single								
Voltage Regulation System	Inverter								
Waveform	Pure Sine wave								
Output	Maximum power (kVA/kW)	7.5 11.0							
	Rated power (kVA/kW)	7.0 10.2							
Voltage(V)	220 120/240		220 120/240						
Current (A)	31.8 2 x 31.8-31.8		46.4 2 x 46.4-46.4						
Rated Power Factor (cos)	1.0								
Maker	YANMAR								
Model	2TNV70-ASG 3TNM68-ASG								
Displacement (L)	0.570 0.784								
Rated output (kW/rpm)	9.3/3600 13.8/3600								
Engine speed (rpm)	2300 - 3400, Variable								
Starting System	Electric Starter								
Fuel	Diesel Fuel (BS2869A1or equivalent)								
Battery (5HR)	12 - 36 (46B24L or 56B24L) 12 - 36 (46B24L)								
L X W X H (mm)	1080 X 647 X 686			1184 X 670 X 770					
Dry Weight (kg)	257 278								
Fuel Tank Capacity	30.0 40.7								
Sound Level [dB(A)/7m]	25% load	63.5 64.0							
	75% load	65.5 66.0							
	100% load	67.5 68.0							
Fuel consumption (litres)	25% load	1.1 1.6							
	50% load	1.6 2.3							
	75% load	2.2 3.2							
	100% load	3.0 4.3							
Volt Meter	YES								
Hour Meter	YES (LED Display)								
Warning Lights	YES								
Output	R Type: Plug Socket x 3, LD Type: Plug Socket x 5								
ATS Terminal	YES								

STANDARD Series

Gasoline Generators						3P FEATURES			
Models	SH 1900 SH 2900 SH 4000 SH 5000 SH 6000								
Type	R-type; 220V(50Hz), S-type; 220V(60Hz), L-type; 120V(60Hz)								
Generator	Frequency (Hz)	50, 60							
	Type	Self-Exciting, 2-pole, Field Rotating Type							
	Voltage Regulation System	AVR							
	Phase	Single							
	AC Output (KVA)	Rated Power (KVA)	50Hz	1.3	2.0	2.7	3.2	4.0	
			60Hz	1.5	2.3	3.0	3.6	4.5	
Maximum Power (KVA)		50Hz	1.6	2.4	3.7	4.5	5.5		
	60Hz	1.9	2.9	4.1	5.0	6.0			
Rated Voltage (V)	220, 120								
Rated Power Factor (cos)	1.0								
Maker	Honda								
Models	GX120 GX160 GX240 GX270 GX340								
Displacement (CC)	118 163 242 270 337								
Maximum Output (PS)	3,600rpm	4 5.5 8 9 11							
Ignition System	Transistor								
Oil Alert System	YES								
Starting System	Recoil								
L X W X H (mm)	560 X 422 X 422			605 X 495 X 490			605 X 511 X 490		
Dry Weight (kg)	29 34 51 54 65								
Fuel Tank Capacity (liters)	2.5 3.6 6.0 6.0 6.5								
Sound Level [dB(A)/7m]	50Hz	69 70 72 72 73							
	60Hz	71 72 74 75 76							
Continuous Operating Hours (hr)	50Hz	3.1 3.7 3.6 3.3 2.8							
	60Hz	2.1 2.5 3.1 2.7 2.3							

HEAVY DUTY Type

Gasoline Generators						1-2P FEATURES			
Models	SH11000 SHT11500 SH13000 SHT15000								
Type	R	LD	R	S	R	LD	R		
Frequency (Hz)	50 60								
Type	Self-exciting, 2-pole, Field Rotating Type								
Voltage Regulation System	AVR								
Phase	Single			Three			Single Three		
AC Output (KVA)	Rated Power (KVA)	50Hz	8.5	-	10.0	-	10.0	12.0	
		60Hz	-	9.5	-	11.5	-	11.8	
	Maximum Power (KVA)	50Hz	10.0	-	11.5	-	11.0	-	
	60Hz	-	11.0	-	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			0.8			1.0 0.8		
Maker	Honda Robin								
Models	GX630 EH72-2DS								
Displacement (CC)	688 720								
Maximum Output (PS) 3,600rpm	21.1 25.4								
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	158 175							
	with wheel	165 183							
Fuel Tank Capacity(liters)	38								
Sound Level [dB(A)/7m]	50Hz	74						76.0 - 76.0	
	60Hz	-						78.0 - 78.0	
Continuous Operating Hours (hr)	50Hz	7.0 - 7.0						5.5 - 5.5	
	60Hz	- 6.2						- 4.5	
Cooling System	Forced Air								
Engine Oil Refill Capacity (liters)	1.8 (with filter replaced) / 1.5 (without filter replaced) 1.55L (inclusive of those in oil filter)								

ATS Generator

Gasoline Generator						4P FEATURES			
Models	SH7000ATS								
Type	RAVS SAVS								
Generator	Frequency (Hz)	50 60							
	Type	Self-Exciting, 2-pole, Field Rotating Type							
	Voltage Regulation System	AVR							
	Phase	Single							
	AC Output (KVA)	Rated Power (KVA)	50Hz	5.0				5.0	
			60Hz	5.5				5.5	
Maximum Power (KVA)		50Hz	6.1				6.1		
	60Hz	7.2				7.2			
Rated Voltage (V)	220								
DC Output (V-A)	12V-8.3A								
Rated Power Factor (cos)	1.0								
Maker	Honda								
Models	GX390								
Displacement (CC)	389								
Maximum Output (PS) 3,600rpm	13								
Ignition System	Transistor								
Oil Alert System	YES								
Starting System	Electric Starter								
L X W X H (mm)	679 X 511 X 496								
Dry Weight (kg)	81								
Fuel Tank Capacity (liters)	17								
Sound Level [dB(A)/7m]	50Hz	73							
	60Hz	75							
Continuous Operating Hours (hr)	50Hz	6.2							
	60Hz	5.2							

WELDER Generator

Gasoline Welder Generator						3-4P FEATURES			
Models	SHW190								
Type	R	S	L	R	S	L			
Frequency (Hz)	50 60								
Type	2-pole, Field Rotating Type								
Phase	Single								
AC Output (KVA)	Rated Power (KVA)	50Hz	2.0				-		
		60Hz	-				3.0 4.0		
	Rated Voltage (V)	220						110	
Rated Power Factor (cos)	1.0								
Type	2-pole, Field Rotating Type								
Rectifier Type	Six Phase Half Wave Rectifier								
Rated Output	3,600rpm						140A 26V		
Current Control Range (A)	-						50 - 190		
Rated Duty Cycle (%)	-						50		
Welding Rod	-						2.6 to 5.0 mm dia.		
Maker	Honda								
Models	GX390								
Displacement (CC)	389								
Maximum Output (PS)	3,600rpm						13		
Ignition System	Transistor								
Oil Alert System	YES								
Starting System	Recoil (OP-Electric)								
L X W X H (mm)	679 X 511 X 490								
Dry Weight (kg)	88								
Fuel Tank Capacity (liters)	17								
Sound Level [dB(A)/7m]	50Hz	73							
	60Hz	75							
Continuous Operating Hours (hr)	50Hz	6.2							
	60Hz								