

### PRODUCTS

#### Compact Diesel Type(5.5 - 10.2kVA)

##### Diesel Generators

#### SHX8000Di (7.0kVA) SHX12000Di (10.2kVA)



Rated Power	Fuel Tank Capacity
SHX8000Di (50Hz)	7.0kVA (60Hz)
SHX12000Di (50Hz)	10.2kVA (60Hz)
	30L
	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 <sup>\*1</sup>

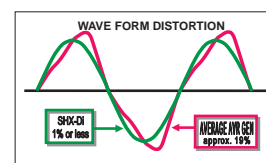
High quality, pure sine wave electrical output is ideal for sensitive equipment like PC and TVs.

###### - SAWAFUJI PMA (Permanent Magnet Alternator) <sup>\*2</sup>

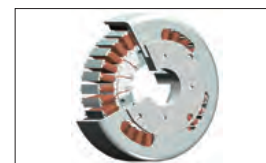
The PMA incorporates SAWAFUJI's state of the art winding technology and is 60% smaller than conventional alternators.

###### - SMART Multi LED Display <sup>\*3</sup>

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



\*1: Inverter



\*2: PMA



\*3: Control Panel

#### SH07D (5.5 - 6.5kVA)



##### LINE UP SH07D/SH11D

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

##### 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 Diesel Type (12 - 22kVA)

##### SPEC 5P

#### SH15D (12 - 13kVA)



##### LINE UP SH15D/SHT15D/SHT17D

Rated Power	Fuel Tank Capacity
SH15D (50Hz)	12kVA (60Hz)
SHT15D (50Hz)	13kVA (60Hz)
	53L

##### FEATURES

###### -High Performance Diesel Engine <sup>\*1</sup>

Kubota D1005  
Vertical water-cooled,4-cycle diesel engine  
The D1005 diesel engines ensure greater power,more efficient combustion,and cleaner emissions.

###### -Control Panel <sup>\*2</sup>

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

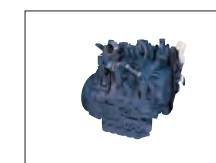
The larger capacity fuel tank enables longer periods of continuous operation.

###### -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 <sup>\*3</sup>

Kubota V2203-B

###### - Brushless Alternator STAMFORD P1144D

###### - Control Panel <sup>\*4</sup>

###### - Automatic Air Bleeding

###### - Safety System

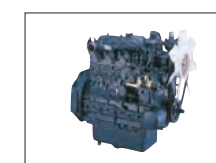
###### - Large Capacity Fuel Tank

###### - One Side Maintenance

###### - ATS(AMF) Terminals

##### LINE UP SH20D/SHT25D

Rated Power	Fuel Tank Capacity
SH20D (50Hz)	20kVA (60Hz)
SHT25D (50Hz)	22kVA (60Hz)
	72L



\*3: Kubota V2203-B



\*4: Control Panel

#### 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 (50Hz)	8.5kVA (60Hz)
SHT11500 (50Hz)	9.5kVA (60Hz)
	38L



Single Phase



Three Phase

#### 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
SH13000 (50Hz)	10kVA (60Hz)
SHT15000 (50Hz)	11.8kVA (60Hz)
	38L



Single Phase



Three Phase



## PRODUCTS

### EX Series(2.2 - 6.5kVA)

#### Gasoline Generators

SPEC ➔ 5P

#### SH3200EX



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

#### 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<sup>\*1</sup>  
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<sup>\*2</sup>  
Not only new attractive outlook design, safety and water resistance are also improved.
- Improved Frame Design  
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.

#### SH7600EX



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



\*2

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

### SHX Series(900 - 1500W)

#### Portable Gasoline Generators

SPEC ➔ 5P

#### SHX1000



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

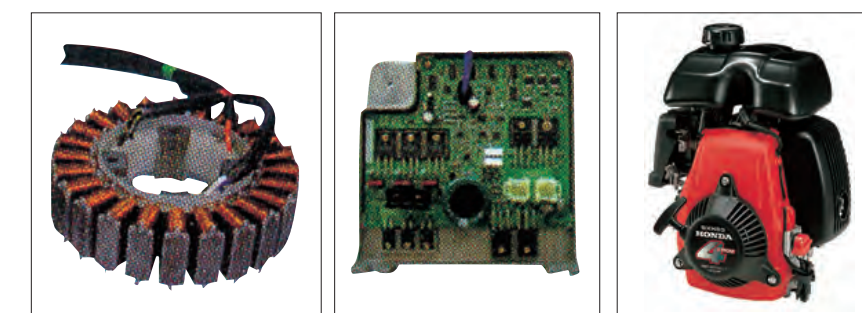
#### FEATURES

- Advanced Technology<sup>\*3</sup>  
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	Dry Weight	Continuous Operating Hours
1.5KW	21kg (R.S.L. type)	7.0hr (1/2 load)



\*3

### STANDARD Series(1.3 - 4.5kVA)

#### Gasoline Generators

SPEC ➔ 6P

#### SH2900



**LINE UP** SH1900/ SH2900/SH4000/SH5000/ SH6000

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

#### FEATURES

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

### WELDER Generator

#### Gasoline Generators



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

### (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

### ATS Generator(5.0 - 5.5kVA)

#### Gasoline Generators

SPEC ➔ 6P

#### SH7000ATS



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

#### 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.



## SPECIFICATIONS

### EX Series

Gasoline Generators 3P FEATURES									
Models		SH3200EX		SH3900EX		SH4600EX		SH5300EX	
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
Engine	AC Output (KVA)		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)						
			12V-8.3A						
	DC Output (V-A)	1.0							
	Rated Power Factor (cos )	1.0							
	Maker	Honda							
Engine	Models	GX160		GX200		GX240		GX270	
	Displacement (CC)	163		196		242		270	
	Maximum Output (PS)	3,600rpm		5.5		6.5		8	
	Ignition System	Transistor							
	Oil Alert System	YES							
	Starting System	Recoil		Recoil		Recoil(OP:Electric)			
Others	L X W X H (mm)	623 X 435 X 491		46		63		75	
	Dry Weight (kg)	44		17		28			
	Fuel Tank Capacity (litres)	50Hz		64		65		63	
	Sound Level (dB) [dB(A)/7m]	60Hz		68		69		71	
		50Hz		14		10		10	
	Continuous Operable Hours (hr)	60Hz		12		8.8		11	

### SHX Series

Portable Gasoline Generators 4P FEATURES									
Models		SHX 1000		SHX 2000					
Type		R		S		L			
Generator	Frequency (Hz)	50		60					
	Engine Speed (rpm)	5800/4100(Power Mode/Silent Mode)							
	Waveform	Square-Wave							
	AC Output	Maximum Power (W)	1000		1900		1700		1900
		Rated Power (W)	900		1500				
		Rated Voltage (V)	220	230	220	120	220	230	220
Engine	DC Output	Only for Charging 12V Automotive Batteries.							
	Insulation Class	Maximum Charging Output = 8.3/4.2 (Power Mode/Silent Mode)							
	Maker	Honda							
	Models	GXH50		GX100					
	Type	Air Cooled OHV 4-stroke Gasoline							
	Displacement (CC)	49.4		98					
Others	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		21.0	
	Fuel Tank Capacity(litres)	3.8		7.7					
	Sound Level [dB(A)/7m]	58(1/2 load)		63(1/2 load)					
	[dB Lwa]	89(3/4 load)		93(3/4 load)					
	Continuous Operable Hours	5.5(rated load) 8.6(1/2 load)		7					

### HEAVY DUTY Type

Diesel Generators										1-2P	FEATURES			
Models		SH07D		SH11D		SH15D		SH17SD		SH20D		SH25SD		
Type		R	LD	R	LD	R	D	R	LD	R	LD	R	S	
	Frequency (Hz)	50	60	50	60	50	60	50	60	50	60	50	60	
	Type	Self-exciting, 2-pole, Field Rotating Type				Self-exciting, 2-pole		Field Rotating Type		Self-exciting, 4-pole, brushless, Field Rotating Type		Field Rotating Type		
	Phase	Single				Three		Three		Single		Three		
Generator	Voltage Regulation System	AVR				Single		AVR						
	Rated Power (KVA)	5.5		8.0		12		15		20				
	50Hz	6.5		10.0		13		16.3		22				
	60Hz													
	AC Output	Rated Voltage (V)	220	120/240	220	120/240	220	120/240	Single Phase : 220 Three Phase : 380		120/240		Single Phase : 220 Three Phase : 380	
	Rated Power Factor (cos)	1.0				1.0		0.8		1.0		0.8		
Engine	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							
Others	Dry Weight (Kg)	235	295		540		72							
	Fuel Tank Capacity (liters)	28				53								
	Sound Level [dB(A)/7m]	50Hz	66.5	-	68.0	-	68.0	-	68.0	-	71.0	-	66.0	-
	60Hz	-	67.5	-	69.0	-	70.0	-	71.0	-	72.0	-	71.0	-
	Continuous	50Hz	15.6	-	11.2	-	10.8	-	11.8	-	9.0	-	17.6	-
	Operating Hours (hr)	60Hz	-	13.3	-	8.5	-	9.1	-	9.0	-	14.3	-	15.2
	Volt Meter	NO				YES		NO		YES				
	Ampere Meter	NO				YES		NO		YES				
	Hour Meter	NO				YES		NO		YES				
	Warning Lights	YES				YES		Indicator Lights (4-conditions)						
	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					
Frequency (Hz)		50		60					
Generator	Type	Permanent Magnet, Multi-Pole Alternator							
	Phase	Single							
	Voltage Regulation System	Inverter							
	Waveform	Pure Sine wave							
	Output	Maximum power (KVA/W)	7.5	11.0					
		Rated power (KVA/W)	7.0	10.2					
Engine	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					
Others	Rated output (KW/rpm)	9.3/3600		13.8/3600					
	Engine speed( rpm)	2300 - 3400, Variable							
	Starting System	Electric Starter							
	Fuel	Diesel Fuel (BS2269A for equivalent)							
	Battery (5HR)	12 - 36 (46B24L or 55B24L)		12 - 36 (46B24L)					
	L X W X H (mm)	1080 X 647 X 686		1184 X 670 X 770					

### 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										
Engine	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				
Others	Dry Weight (kg)		29	34	51	54	65					
	Fuel Tank Capacity (liters)		2.5	3.8	6.0	6.0	8.5					
	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	3.1	2.5	3.1	2.7	2.3					