

SHX8000Di

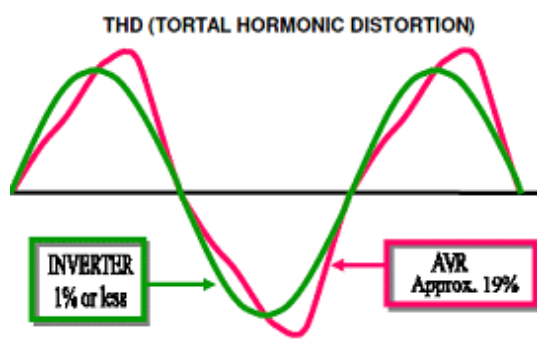


SPEC

FEATURES

Pure Sine Wave Comparable to Utility Power^{*1}

High Quality, Pure sine wave electrical output perfect for sensitive equipment like computers and TVs, as well as inductive load like pumps. Also suitable as a residential standby generator.



Inverter *1



PMA *2

Tight Voltage & Frequency Regulations

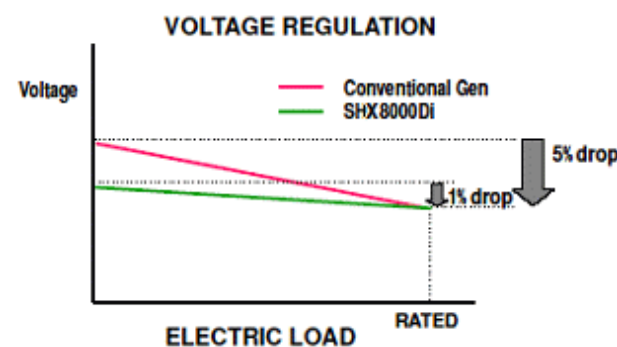
Conventional gens show prominent voltage drop, around 5%, between no load to rated load, whereas SHX8000Di's drop is within 1%.

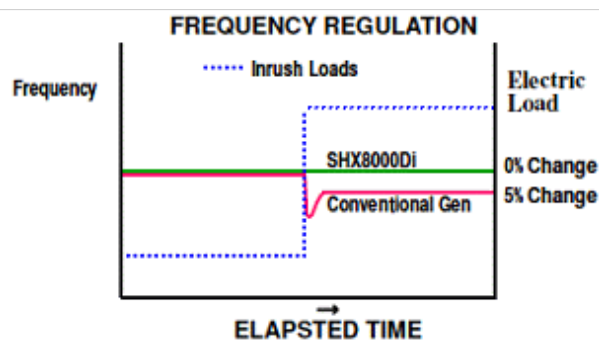
Conventional gen's frequency fluctuates, most notably under inrush loads, by around 5%.

SHX8000Di on the other hand maintains perfectly stable frequency.



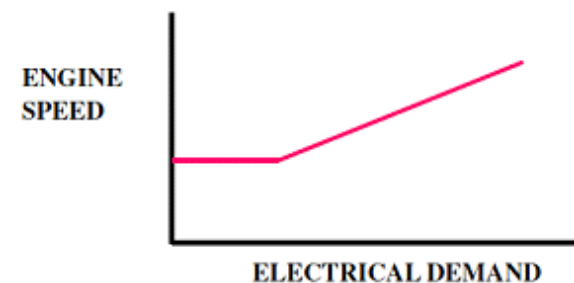
Control Panel





Variable Speed, Load-matching, Operation

Engine speed changes variably in proportion to load demand, contributing to low fuel consumption and minimizing noise level.



Permanent Magnet Alternator*2

PMA(Permanent Magnet Alternator), concentrating SAWAFUJI's state of the art winding technologies, achieves alternator size 60% smaller compared with a conventional, fixed-speed alternator, contributing to substantial decrease in weight and size.

Directly mounted on the flywheel and comes with no bearing and brush, the PMA is virtually free from troubles caused by worn parts.

Boost Button

Increases engine speed and minimizes voltage drop during motor starting.

Multi-Display by LED

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

Terminals for ATS (Automatic Transfer Switch)

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

Model NAME			SHX8000Di
FREQUENCY (Hz)			50 or 60 Varies between models
ALTERNATOR	OUTPUT	MAXIMUM	7.5 kVA
		RATED	7.0 kVA
	VOLTAGE(V)		110/120/220/230/240 Varies between models
	CURRENT(A)		31.8/29.2/31.8/30.4/29.1 Varies between models
	NO. OF PHASES		SINGLE PHASE (2-WIRE)
	POWER FACTOR (RATED POWER cosφ)		1.0
	INSULATION CLASS		B
	NO. OF POLES		MULTI POLES
	EXCITATION TYPE		PMG EXCITED

INVERTER	CONTROL METHOD		CVCF (VOLTAGE AND FREQUENCY CONTROL)
	VOLTAGE WAVE FORM		SINE WAVE
ENGINE	MAKER		YANMAR
	MODEL NAME		2TNV70 - ASG
	No. OF CYLINDERS, BORE x STROKE (mm)		2 - 70 x 74
	CONTINUOUS RATED OUTPUT (kW / rpm)		8.5 / 3600
	RATED OUTPUT (kW / rpm)		9.3 / 3600
	ENGINE SPEED (rpm)		2300 - 3400, VARIABLE
	DISPLACEMENT (cc)		570
	FUEL TYPE		DIESEL(BS2869A1 or EQUIVALENT)
	INJECTION TYPE		INDIRECT INJECTION (IDI)
	COOLING TYPE		RADIATOR
	ASPIRATION TYPE		NATURAL ASPIRATION
	LUBRICATION TYPE		FORCED LUBRICATION BY TROCHOIDAL PUMP
	LUBRICANT TYPE		SAE 10W-30, API CLASS:CD or UPPER GRADE
	COOLANT VOLUMES	ENGINE (ℓ)	0.9
		RADIATOR(ℓ)	1.6
	LUBRICANT VOLUMES	TOTAL (ℓ)	2.2
		MINIMUM (ℓ)	1.0
	STARTER (V - kW)		12 - 1.0
	CHARGING ALTERNATOR (V - A)		12 - 40
	BATTERY TYPE (5HR) (V - AH)		12 - 36 (55B24L)
	FUEL CONSUMPTION (ℓ / Hr)	25% LOAD	1.1
50% LOAD		1.6	
75% LOAD		2.2	
100% LOAD		3.0	
ENGINE STARTING METHOD		ELECTRIC STARTER	
Others	L x W x H (mm)		1080 x 647 x 686
	DRY WEIGHT (kg)		257
	FUEL TANK CAPACITY (ℓ)		32
	NOISE LEVEL dB(A) / 7m	50% LOAD	63.5
		75% LOAD	65.5
		100% LOAD	67.5