

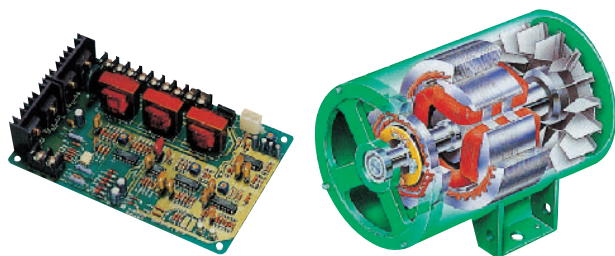
NES SERIES

DIESEL GENERATOR SET



High Quality Generator Output

Using a FET type AVR (Automatic Voltage Regulator), this unit delivers high quality electricity with voltage regulation within $\pm 0.5\%$.

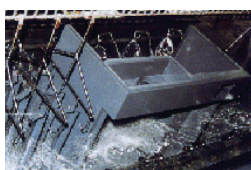


NES series is designed based on the following standards:
JIS: JAPANESE INDUSTRIAL STANDARDS
JEC: Standard of JAPANESE ELECTRO-TECHNICAL COMMITTEE
JEM: Standard of JAPANESE ELECTRICAL MANUFACTURER'S ASSOCIATION
NEGA: Standard of NIPPON ENGINE GENERATOR ASSOCIATION



Anti-rust

Electrodeposition & Acrylic coatings are effective for anti-rust & anti-salt.



Emission Control

NES series (NES13EK~NES500EM) is designed to pass the second emission regulation by the Ministry of Land, Infrastructure & Transport, Japan.



Sound Level

Sound proofed & weather proofed enclosure makes for silent operation. All NES series are approved under the Silent & Super Silent classifications of the Ministry of Land, Infrastructure & Transportation, Japan.



Economical

Our Diesel Generator Sets are designed with low fuel consumption Diesel Engines.

The compact design of the Diesel Generator Sets reduces transport charges. And the durability of the whole set makes a longer life, i.e. the initial investment will be repaid over time.

Easy access

One side maintenance design gives you easier access for maintenance duties.



▲For example

Anti-theft & Safety

The safety monitor is equipped as standard on all models, with a sensor, which stops the engine for safety. The anti-theft cover is provided for security. (NES45EN, NES60EH, NES100EI)

Dual Voltage

Dual voltage is designed for NES125EM~NES800SM.



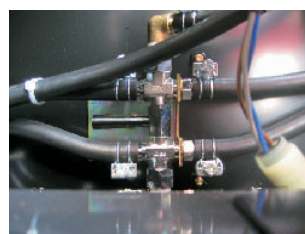
▲NES150EH

Automatic Air Bleeder

The automatic air bleeder solves the problem of entrained air obstruction. (standard for NES13EK-NES100EI)

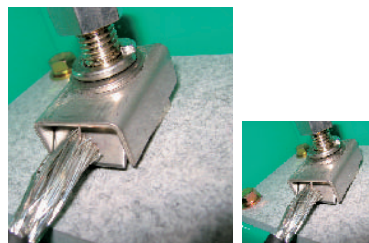
Fuel Switching Valve

The three-way valve (patent pending) is equipped inside the housing. (standard for NES13EK~NES300EH)



Easy Connection

Large terminals provide easy open wire & terminal connection.



▲NES45AP

Standard Type Specification Table



▲NES60EH



▲NES150EH



▲NES220EM



▲NES300EH



▲NES610SM



Super Silent Models



Silent Models

Models marked ★ have passed the 2nd Emission Regulation by the Ministry of Land, infrastructure and Transport, JAPAN.

Item			Mode Units	NES13EK-3		NES25EK-3		NES45EN2		NES60EH		NES100EI			NES125EH		NES150EH		NES220EM		NES300EH		NES400EM		NES500EM		NES610SM		NES800SM			
Alternator	Frequency		Hz	50	60	50	60	50	60	50	60	50	60		50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60		
	Output	Prime	kVA	10.5	13	20	25	37	45	50	60	80	100		100	125	125	150	195	220	270	300	350	400	450	500	554	610	700	800		
		Standby	kVA	11.6	14.3	22	26.3	40.7	47.3	55	66	84	105		110	138	138	165	215	242	297	315	385	440	495	550	582	641	735	800		
	Voltage(*1)		V	①Single Voltage (Dual Voltage is available as option)											②Dual Voltage																	
	No. of poles			4																4												
	Power Factor			80% Lagging																80% Lagging												
	Type & No of Phase			Brushless Alternator, 3-Phase,4-Wire																Brushless Alternator, 3-Phase,4-Wire												
Engine	Engine Model			KUBOTA D1503		KUBOTA V2403		NISSAN 2A-BD30T		HINO W04D-TG		ISUZU DD-6BG1T			HINO J08C-UD		HINO J08C-UD		MITSUBISHI 6D24-TLE2B		HINO K13C-TY		MITSUBISHI S6B3-E2PTAA-3		MITSUBISHI S6A3-E2PTAA-1		MITSUBISHI S6R-PTA		MITSUBISHI S12A2-PTA			
	Type			Swirl Chamber Type				Direct injection type with turbo charger									Direct injection type with turbo charger & cooler															
	Cylinders Bore × Stroke		mm	3-83×92.4		4-87×102.4		4-96×102		4-104×118		6-105×125			6-114×130		6-114×130		6-130×150		6-135×150		6-135×170		6-150×175		6-170×180		12-150×160			
	Total Displacement		ℓ	1.499		2.434		2.953		4.009		6.494			7.961		7.961		11.94		12.9		14.6		18.56		24.5		33.9			
	Rated Output		kW	11.5	13.7	19.1	23.7	34.5	43.5	50.4	59.6	73.6	91.2		118	140	118	140	181	199	242	269	309	346	405	467	517	565	676	757		
			PS	15.6	18.6	26	32.2	47.5	57	68.5	81	100	124		160	190	160	190	246	271	329	366	420	471	551	635	703	768	920	1030		
	Speed		min ⁻¹	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800		1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800		
	Fuel Consumption	100% Load	ℓ /H	2.9	3.6	5.2	6.6	8.5	10	11	13	18	23		21	26	26	32	39	47	56	69	73	91	97	115	108	127	135	165		
		75% Load	ℓ /H	2.4	3.0	4.0	5.0	6.3	7.9	8.6	10	13	17		15	19	20	24	30	36	42	52	56	69	73	87	84	99	113	141		
	Engine Oil Volume		ℓ	7		9.5		11		16.5		20			24.5		24.5		37		47		50		80		92		130(Subtank-85)			
	Battery			80D26R × 1		80D26R × 1		80D26L × 1		55B24L × 2		95D31R × 2			95D31R × 2		95D31R × 2		150F51 × 2		150F51 × 2		180G51 × 2		180G51 × 2		180G51 × 2		180G51 × 4			
	Fuel Tank Capacity		ℓ	58		70		100		125		200			250		250		370		490		490		490		580		730			
Fuel			Diesel Fuel																Diesel Fuel													
Dimensions, Weight	Height		mm	950		980		1,350		1,190		1,290			1,450		1,450		1,750		1,790		2,090		2,280		2,400		2,580			
	Length(*2)		mm	1,480		1,550		1,740		2,245		2,730			3,180		3,180		3,840		3,980		4,550		5,270(4,790)		5,173(4,690)		6,235(5,600)			
	Width		mm	650		700		880		880		1,050			1,130		1,130		1,290		1,415		1,415		1,650		1,650		1,950			
	Dry Weight		kg	520		610		990		1,200		1,650			2,170		2,270		3,530		3,940		5,510		6,810		8,190		11,000			
	Mass in Working Order		kg	580		680		1,090		1,335		1,850			2,420		2,520		3,910		4,410		6,030		7,400		8,860		12,000			
Sound Power Level(*3)			dB	83		90		90		92		93			94		95		95		99		101		98		101		101			
Sound Pressure Level(*4)			dB	57		62		60		63		65			66		67		67		69		71		68		72		73			

(*1) Rated Voltage Classification

(*2) exclude the rain cover dimension

(*3) 60Hz/No load (LwA)

(*4) 60Hz/No load at 7m

	50Hz	60Hz
①	190~210V	210~240V
②	190~210V	210~240V
	380~420V	420~480V

Ultra Super Silent Type

Specification Table

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Ultra Super Silent + Friendly + Easy Maintenance

AP Series

				EA Series		AP Series			
									
Item			Mode Units	NES25EA12		NES45AP		NES60AP	
Alternator	Frequency		Hz	50	60	50	60	50	60
	Output	Prime	kVA	20	25	37	45	50	60
		Standby	kVA	22	26.3	40.7	47.3	55	66
	Voltage (*1)		V			①Single Voltage			
	No.of poles					4			
	Power Factor					80% Lagging			
	Type & No of Phase			Brushless Alternator, 3-Phase,4-Wire					
Engine	Engine Model			ISUZU AA-4LE1		NISSAN 2A-BD30T		HINO W04D-TG	
	Total Displacement		ℓ	2,179		2,953		4,009	
	Rated Output		kW	19.1	23.5	34.5	43.5	50.4	59.6
	Speed		min ⁻¹	1500	1800	1500	1800	1500	1800
	Fuel Tank Capacity		ℓ	75		180		180	
	Fuel Consumption	100%Load		5.0	6.4	8.5	10	11	13
		75%Load		3.7	4.7	6.3	7.9	8.4	10
	Engine Oil Volume		ℓ	8		11		16.5	
	Battery			80D26R × 1		80D26L × 1		55B24L × 2	
	Fuel			Diesel Fuel					
Dimension (H×L×W)			mm	1,050×1,570×800		1,445×1,760×995		1,550×2,000×995	
Dry Weight			kg	690		1,185		1,430	
Mass in Working Order			kg	765		1,355		1,610	
Sound Power Level (*2)			dB	82		82		83	
Sound Pressure Level(*3)			dB	54		55		55	

(*1) Rated Voltage Classification

(*2) 60Hz/No load (LWA)

(*3) 60Hz/No load at 7m

	50Hz	60Hz
①	190~210V	210~240V

Distributor

Manufacturer

 **NIPPON SHARYO, LTD.**

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- Specification in this catalog subject to change without notice.
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- Instruction manual must be read thoroughly before operating the generator set.
- Modification, remodeling at customer side is not accepted.

Due to company's policy of continuous development and improvement, the right is reserved to change the specifications without notice.

109BE (Apr.2007)