

NES SERIES

Diesel Engine Generator















Item					NES45TY3		NES4	5TYL3	NES6	0TK2	NES60TKL2		
	Frequency			Hz	50	60	50	60	50	60	50	60	
nator		Output		kVA	37	45	37	45	50	60	50	60	
	Three-phase 4-wire type			kW	29.6	36	29.6	36	40	48	40	48	
		200V	Voltage	V	200	220	200	220	200	220	200	220	
Alternator			Current	А	107	118	107	118	144	157	144	157	
		400)/	Voltage*1	V	400	440	400	440	400	440	400	440	
		400V	Current*1	А	53.4	59.0	53.4	59.0	72.2	78.7	72.2	78.7	
	Type & Power Factor					Brushles	s Alternator, 3-	-Phase, 4-Wire	, 4-Poles, Power Factor 80% Lagging				
	Engine model				YANMAR 3	-4TNV98TG	YANMAR 3	-4TNV98TG	KUBOTA V38	800-DI-TI-K3A	KUBOTA V3800-DI-TI-K3A		
		Туре			Direc	t injection typ	e with turboch	arger	Direct injection type with turbocharger and intercoole				
		Cylinders			4	1	4	4	4	4	4		
	Bore×Stroke			mm	98×110		98×	:110	100>	×120	100×120		
	Displacement			L	3.3	19	3.319		3.769		3.769		
Φ	Rated output			kW	37.9	45.6	37.9	45.6	49.2	57.5	49.2	57.5	
Diesel Engine	Revolution		min ⁻¹	1500	1800	1500	1800	1500	1800	1500	1800		
Diesel	Fuel		50% load	L/H	4.2	5.3	4.2	5.3	5.8	7.2	5.8	7.2	
	со	nsumption	75% load	L/H	5.9	7.4	5.9	7.4	8.4	10.3	8.4	10.3	
	Engine oil volume			L	11	.2	11	1.2	13	3.8	13	3.8	
	Battery				105D31L×1								
	Fuel tank capacity			L	14	15	30	30	18	30	400		
	Fuel			Diesel fuel									
	Oil guard capacity			L	24	15	36	65	275		400		
ight	Length ^{**2}			mm	17	40	17	40	20	50	2050		
ıd wei	Width*1			mm	880		880		930		930		
Dimensions and wei	Height			mm	1350		1650		1390		1600		
	Dry weight			kg	1025		1090		1160		1235		
Din	Operating weight			kg	1175		13	90	13	35	1595		
	Sound power level**3 d				8	88		89		90		90	
Sou	nd po	ower level at	7 meters*4	dB	60	61	58	60	61	64	60	63	

^{※3} Value at 60Hz with zero load.

NES SERIES

LIST OF OPTIONS











Anti-theft cover

Panel door with key

Fuel filler with key

• : Standard $\ensuremath{\mathsf{O}}$: Options are applicable at time of factory shipment

		Tier 3 version engine model										
	Option	NES 25TK	NES 25TKL	NES 25TKLS	NES 45TY3	NES 45TYL3	NES 60TK2	NES 60TKL2	NES 100TI2	NES 125TI2	NES 150TI2	
ng	Full-auto parallel running device	_	_	_	_	_	_	_	-	-	_	
Parallel running	Manual synchronizing device	_	_	_	_	_	_	_	_	_	0	
Par	Percent power meter	_	_	_	_	_	_	_	_	_	_	
ıtrol	e-Pon (Simple auto starter)	_	0	0	0	0	0	0	0	0	0	
Operation control	Energy-saving remote controller	_	_	_	_	_	_	_	0	0	0	
Ope	Slowdown device	_	_	_	_	_	_	_	_	_	_	
	Oil gurad	•	•	•	•	•	•	•	•	•	•	
	Fuel tank three-way cock	•	_	_	•	_	•	_	•	•	•	
Oil / Fuel	Automatic oil supply unit	1	_	_	_	_	_	_	_	_	_	
	Oil drain pump	I	_	_	-	_	_	_	ı	-	_	
	Fuel supply device	ı	_	_	_	_	_	_	-	-	_	
	Leak detection set at 200mA	0	0	0	0	0	0	0	0	0	0	
	Salt resistance *	0	0	0	0	0	0	0	0	0	0	
	Rain cover *	l	_	_	_	_	_	_	_	_	_	
Others	Anti-theft cover	0	0	0	0	0	0	0	0	0	0	
Oth	Skid	0	0	0	0	0	0	0	0	0	0	
	Panel door with key	0	0	0	0	0	0	0	0	0	0	
	Fuel filler with key	•	0	0	0	0	0	0	0	0	0	
	Output terminal rubber backing sheet	•	•	•	0	0	0	0	0	0	0	

^{*} When Rain-cover or Salt resistance is installed, the width is changed as following. NES220EM:1820mm, NES400EM:2375mm

Note: Please consult with Nippon Sharyo if you have a specific requirement for options or other than the avobe. Some combinatinos of options are not available. Please consult with Nippon Sharyo for more information.



Energy-saving remote controller



Slowdown device



Fuel tank three-way cock



Supply unit

Automatic oil supply unit



Output terminal rubber backing sheet

9 0

• : Standard O : Options are applicable at time of factory shipment

	Option	Tier 3 version engine model			Standard O : Options are applicable at time of factory shipment							
	Орион	NES 220TI	NES 300TK	NES 400TI	NES 100EI	NES 125EH	NES 150EH	NES 220EM	NES 400EM	NES 500EM	NES 610SM	NES 800SM
Parallel running	Full-auto parallel running device	0	0	0	_	_	_	0	0	0	0	0
	Manual synchronizing device	0	•	•	_	0	0	0	•	•	•	•
	Percent power meter	0	0	0	_	_	_	0	0	0	0	0
Operation control	e-Pon (Simple auto starter)	0	0	0	1	_	_	_	_	_	_	_
	Energy-saving remote controller	0	0	0	_	0	0	0	0	0	0	0
odo	Slowdown device	0	0	0	_	_	_	0	0	0	0	0
	Oil gurad	•	•	•	-	_	_	_	_	_	_	_
	Fuel tank three-way cock	•	•	0	•	•	•	•	0	0	0	0
Oil / Fuel	Automatic oil supply unit	0	0	0	1	_	_	0	0	0	0	•
	Oil drain pump	0	0	0	I	-	-	0	0	0	0	0
	Fuel supply device	0	0	0	1	_	_	0	0	0	0	0
	Leak detection set at 200mA	0	0	0	0	0	0	0	0	0	0	0
	Salt resistance *	0	0	0	0	0	0	0	0	0	0	0
	Rain cover *	_	_	•	ı	_	_	0	0	•	•	•
Others	Anti-theft cover	0	_	_	•	0	0	0	_	_	_	_
Oth	Skid	0	0	0	0	0	0	0	0	0	0	0
	Panel door with key	0	0	0	0	0	0	0	0	0	0	0
	Fuel filler with key	0	0	0	0	0	0	0	0	0	0	0
	Output terminal rubber backing sheet	0	0	0	0	0	0	0	0	•	•	•

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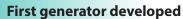
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The history and progress of diesel generator sets cannot be told without Nippon Sharyo, Ltd.

We have defined the times by launching various power production facilities with new innovative concepts.

We continue to contribute to the environment and ergonomics through improving our products.

1960



Development of DG model generator (Japan's first portable diesel generator for construction ,September 1960)

Thanks to customers, support, we have been successful for more than half a century in many locations of the world. Both voltages, 200V and 400V, are available.









High insulation + alternator

The alternator winding is coated with varnish using dripping impregnation and vacuum impregnation to provide high insulation performance.



Weather resistant coating

Electrodeposition and weather-resistant baking finish are used on all models, providing high resistance to corrosion.



High-quality power supply

The FET-type AVR(Automatic Voltage Regulator) and high-performance damper winding provide high-quality power with a voltage regulation of $\pm 0.5\%$.

In addition to working well with general linear loads, the generator also works well with nonlinear loads such as inverters.

Tough and durable

Tougeness and durability. We continue to create products that satisfy our customers.



Generators developed by NISSHA

All NISSHA generators, except for engine components, are developed and manufactured according to our designs. In particular, we have absolute confidence in our alternators due to our many years of experience. We will continue to respond to our customer's requests so that they can supply power to a wide variety of loads.

OPTION

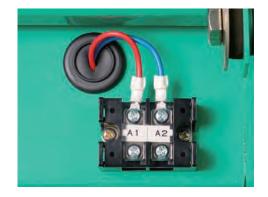
We have several options and we will show typical options in this page.

e-Pon (Simple auto starter)

Start/stop and run/idle control of a generator can be controlled using external signals, enabling many useful applications.

Advantage

- Allows energy-saving operation of a submersible pump.
- Reduced fuel consumption means reduced CO2 emissions.
- Reduced fuel consumption adds value to the system.
- Prevents dry operation of the submersible pump, extending pump life.
- Reduces low-load operation of the generator, leading to shorter operation hours.



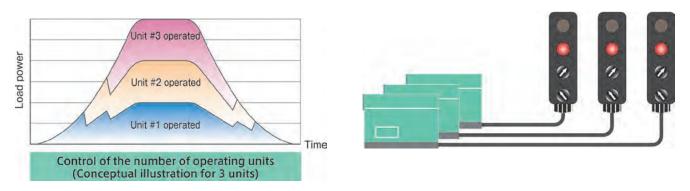
Full-auto parallel running device

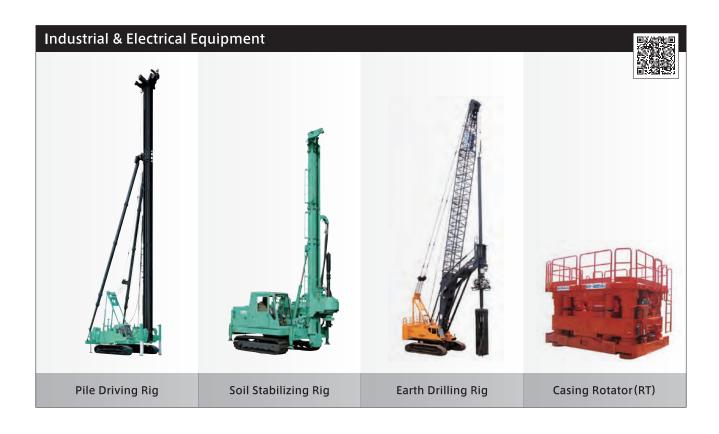
This controller includes auto start/stop, synchronizing, load sharing, controlling the number of operating units, and measurement and protection, allowing fully automatic parallel running of generators. The number of operating generators are automatically controlled so that the optimum number are in operation according to changes in the power load, therefore only the minimum necessary number of generators are in operation and the remaining generators are stopped and placed in a standby state, thus improving the operating efficiency of the generators and saving fuel.

Features

- Compact unit that enables all-in-one control
- Full automatic control with a single switch
- Efficient operation for lower fuel consumption
- Up to 8 generators can be connected
- Remote auto start-stop of one or more generators via contact input







Manufacturer



http://www.n-sharyo.co.jp/index_e.html







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