



# NES SERIES

## Diesel Engine Generator





## SPECIFICATIONS

**Tier 3 version engine model**



**Ultra Super Silent**



| Item                            |                         |                   | NES25TK     |  | NES25TKL  |                  | NES25TKLS |                  |      |
|---------------------------------|-------------------------|-------------------|-------------|--|-----------|------------------|-----------|------------------|------|
| Alternator                      | Frequency               | Hz                | <b>50</b>   | <b>60</b>  | <b>50</b> | <b>60</b>        | <b>50</b> | <b>60</b>        |      |
|                                 | Three-phase 4-wire type | Output            | kVA         | 20   | 25        | 20               | 25        | 20               | 25   |
|                                 |                         |                   | kW          | 16   | 20        | 16               | 20        | 16               | 20   |
|                                 | 200V                    | Voltage           | V           | 200  | 220       | 200              | 220       | 200              | 220  |
|                                 |                         | Current           | A           | 57.7   | 65.6      | 57.7             | 65.6      | 57.7             | 65.6 |
|                                 | 400V                    | Voltage*1         | V           | 400  | 440       | 400              | 440       | 400              | 440  |
|                                 |                         | Current*1         | A           | 28.9   | 32.8      | 28.9             | 32.8      | 28.9             | 32.8 |
|                                 | Type & Power Factor     |                   |             | Brushless Alternator, 3-Phase, 4-Wire, 4-Poles, Power Factor 80% Lagging |           |                  |           |                  |      |
|                                 | Diesel Engine           | Engine model      |             | KUBOTA V2403-K3A   |           | KUBOTA V2403-K3A |           | KUBOTA V2403-K3A |      |
|                                 |                         | Type              |             | Swirl chamber type   |           |                  |           |                  |      |
| Cylinders                       |                         |                   | 4           |  | 4         |                  | 4         |                  |      |
| Bore×Stroke                     |                         | mm                | 87×102.4    |  | 87×102.4  |                  | 87×102.4  |                  |      |
| Displacement                    |                         | L                 | 2.434       |  | 2.434     |                  | 2.434     |                  |      |
| Rated output                    |                         | kW                | 19.1        | 23.7   | 19.1      | 23.7             | 19.1      | 23.7             |      |
| Revolution                      |                         | min <sup>-1</sup> | 1500        | 1800   | 1500      | 1800             | 1500      | 1800             |      |
| Fuel consumption                |                         | 50% load          | L/H         | 3.1  | 3.8       | 3.1              | 3.8       | 3.1              | 3.8  |
|                                 |                         | 75% load          | L/H         | 4.0  | 5.1       | 4.0              | 5.1       | 4.0              | 5.1  |
| Engine oil volume               |                         | L                 | 9.7         |  | 9.7       |                  | 9.7       |                  |      |
| Battery                         |                         |                   | 85D26L×1    |  |           |                  |           |                  |      |
| Fuel tank capacity              |                         | L                 | 70          |  | 195       |                  | 195       |                  |      |
| Fuel                            |                         |                   | Diesel fuel |  |           |                  |           |                  |      |
| Oil guard capacity              | L                       | 70                |             | 300  |           | 276              |           |                  |      |
| Dimensions and weight           | Length*2                | mm                | 1540        |  | 1540      |                  | 1540      |                  |      |
|                                 | Width*1                 | mm                | 700         |  | 700       |                  | 800       |                  |      |
|                                 | Height                  | mm                | 1125        |  | 1460      |                  | 1460      |                  |      |
|                                 | Dry weight              | kg                | 645         |  | 735       |                  | 810       |                  |      |
|                                 | Operating weight        | kg                | 720         |  | 915       |                  | 990       |                  |      |
| Sound power level*3             | dB                      | 90                |             | 88   |           | 82               |           |                  |      |
| Sound power level at 7 meters*4 | dB                      | 61                | 64          | 61   | 61        | 54               | 56        |                  |      |

※ 1 **Bold borders** indicate options.

※ 2 Values in parentheses are dimensions excluding the rain cover.

※ 3 Value at 60Hz with zero load.

※ 4 Average sound pressure in 4 directions at no load.



| Item  |                      |                       | NES45TY3    |  | NES45TYL3 |                   | NES60TK2  |   | NES60TKL2 |                        |      |
|---|----------------------|-----------------------|-------------|--|-----------|-------------------|-----------|---|-----------|------------------------|------|
| Alternator                                  | Frequency            | Hz                    | <b>50</b>   | <b>60</b>  | <b>50</b> | <b>60</b>         | <b>50</b> | <b>60</b>   | <b>50</b> | <b>60</b>              |      |
|   | Output               | kVA                   | 37          | 45   | 37        | 45                | 50        | 60  | 50        | 60                     |      |
|   |                      | kW                    | 29.6        | 36   | 29.6      | 36                | 40        | 48  | 40        | 48                     |      |
|   | 200V                 | Voltage               | V           | 200  | 220       | 200               | 220       | 200   | 220       | 200                    | 220  |
|   |                      | Current               | A           | 107  | 118       | 107               | 118       | 144   | 157       | 144                    | 157  |
|   | 400V                 | Voltage <sup>※1</sup> | V           | 400  | 440       | 400               | 440       | 400   | 440       | 400                    | 440  |
|   |                      | Current <sup>※1</sup> | A           | 53.4   | 59.0      | 53.4              | 59.0      | 72.2  | 78.7      | 72.2                   | 78.7 |
|   | Type & Power Factor  |                       |             | Brushless Alternator, 3-Phase, 4-Wire, 4-Poles, Power Factor 80% Lagging |           |                   |           |   |           |                        |      |
|   | Diesel Engine        | Engine model          |             | YANMAR 3-4TNV98TG  |           | YANMAR 3-4TNV98TG |           | KUBOTA V3800-DI-TI-K3A                                  |           | KUBOTA V3800-DI-TI-K3A |      |
|   |                      | Type                  |             | Direct injection type with turbocharger                                  |           |                   |           | Direct injection type with turbocharger and intercooler |           |                        |      |
| Cylinders                                   |                      |                       | 4           |  | 4         |                   | 4         |   | 4         |                        |      |
| Bore×Stroke                                 |                      | mm                    | 98×110      |  | 98×110    |                   | 100×120   |   | 100×120   |                        |      |
| Displacement                                |                      | L                     | 3.319       |  | 3.319     |                   | 3.769     |   | 3.769     |                        |      |
| Rated output                                |                      | kW                    | 37.9        | 45.6   | 37.9      | 45.6              | 49.2      | 57.5  | 49.2      | 57.5                   |      |
| Revolution                                  |                      | min <sup>-1</sup>     | 1500        | 1800   | 1500      | 1800              | 1500      | 1800  | 1500      | 1800                   |      |
| Fuel consumption                            |                      | 50% load              | L/H         | 4.2  | 5.3       | 4.2               | 5.3       | 5.8   | 7.2       | 5.8                    | 7.2  |
|   |                      | 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        |  | 11.2      |                   | 13.8      |   | 13.8      |                        |      |
| Battery                                     |                      |                       | 105D31L×1   |  |           |                   |           |   |           |                        |      |
| Fuel tank capacity                          |                      | L                     | 145         |  | 330       |                   | 180       |   | 400       |                        |      |
| Fuel  |                      |                       | Diesel fuel |  |           |                   |           |   |           |                        |      |
| Oil guard capacity                          | L                    | 245                   |             | 365  |           | 275               |           | 400   |           |                        |      |
| Dimensions and weight                       | Length <sup>※2</sup> | mm                    | 1740        |  | 1740      |                   | 2050      |   | 2050      |                        |      |
|   | Width <sup>※1</sup>  | mm                    | 880         |  | 880       |                   | 930       |   | 930       |                        |      |
|   | Height               | mm                    | 1350        |  | 1650      |                   | 1390      |   | 1600      |                        |      |
|   | Dry weight           | kg                    | 1025        |  | 1090      |                   | 1160      |   | 1235      |                        |      |
|   | Operating weight     | kg                    | 1175        |  | 1390      |                   | 1335      |   | 1595      |                        |      |
| Sound power level <sup>※3</sup>             | dB                   | 88                    |             | 89   |           | 90                |           | 90  |           |                        |      |
| Sound power level at 7 meters <sup>※4</sup> | dB                   | 60                    | 61          | 58   | 60        | 61                | 64        | 60  | 63        |                        |      |

※1 **Bold borders** indicate options.

※2 Values in parentheses are dimensions excluding the rain cover.

※3 Value at 60Hz with zero load.

※4 Average sound pressure in 4 directions at no load.

## SPECIFICATIONS



**Tier 3 version engine model**



| Item  |                      |                       | NES100TI2  |   | NES125TI2 |                | NEW NES150TI2 |                |      |
|---|----------------------|-----------------------|--|---|-----------|----------------|---------------|----------------|------|
| Alternator                                  | Frequency            | Hz                    | 50   | 60  | 50        | 60             | 50            | 60             |      |
|   | Output               | kVA                   | 80   | 100   | 100       | 125            | 125           | 150            |      |
|   |                      | kW                    | 64   | 80  | 80        | 100            | 100           | 120            |      |
|   | 200V                 | Voltage               | V  | 200   | 220       | 200            | 220           | 200            | 220  |
|   |                      | Current               | A  | 231   | 262       | 289            | 328           | 361            | 394  |
|   | 400V                 | Voltage <sup>※1</sup> | V  | 400   | 440       | 400            | 440           | 400            | 440  |
|   |                      | Current <sup>※1</sup> | A  | 115   | 131       | 144            | 164           | 180            | 197  |
|   | Type & Power Factor  |                       | Brushless Alternator, 3-Phase, 4-Wire, 4-Poles, Power Factor 80% Lagging |   |           |                |               |                |      |
|   | Diesel Engine        | Engine model          |  | ISUZU BI-4HK1X  |           | ISUZU BI-4HK1X |               | ISUZU BH-6HK1X |      |
|   |                      | Type                  |  | Direct injection type with turbocharger and intercooler |           |                |               |                |      |
| Cylinders                                   |                      |                       | 4  |   | 4         |                | 6             |                |      |
| Bore × Stroke                               |                      | mm                    | 115 × 125  |   | 115 × 125 |                | 115 × 125     |                |      |
| Displacement                                |                      | L                     | 5.193  |   | 5.193     |                | 7.790         |                |      |
| Rated output                                |                      | kW                    | 95.8   | 113.6   | 95.8      | 113.6          | 135.2         | 166.5          |      |
| Revolution                                  |                      | min <sup>-1</sup>     | 1500   | 1800  | 1500      | 1800           | 1500          | 1800           |      |
| Fuel consumption                            |                      | 50% load              | L/H  | 9.5   | 12.3      | 11.3           | 14.6          | 15.6           | 18.4 |
|   |                      | 75% load              | L/H  | 13.6  | 17.4      | 16.5           | 20.8          | 22.4           | 25.0 |
| Engine oil volume                           |                      | L                     | 23.5   |   | 23.5      |                | 41            |                |      |
| Battery                                     |                      |                       | 170F51 × 1   |   |           |                | 120E41R × 2   |                |      |
| Fuel tank capacity                          |                      | L                     | 250  |   | 250       |                | 250           |                |      |
| Fuel  |                      |                       | Diesel fuel  |   |           |                |               |                |      |
| Oil guard capacity                          | L                    | 265                   |  | 265   |           | 480            |               |                |      |
| Dimensions and weight                       | Length <sup>※2</sup> | mm                    | 2720   |   | 2720      |                | 3250          |                |      |
|   | Width <sup>※1</sup>  | mm                    | 1130   |   | 1130      |                | 1130          |                |      |
|   | Height               | mm                    | 1550   |   | 1550      |                | 1650          |                |      |
|   | Dry weight           | kg                    | 1900   |   | 1940      |                | 2420          |                |      |
|   | Operating weight     | kg                    | 2150   |   | 2190      |                | 2700          |                |      |
| Sound power level <sup>※3</sup>             | dB                   | 91                    |  | 93  |           | 96             |               |                |      |
| Sound power level at 7 meters <sup>※4</sup> | dB                   | 60                    | 64   | 61  | 64        | 64             | 67            |                |      |

※1 **Bold borders** indicate options.

※2 Values in parentheses are dimensions excluding the rain cover.

※3 Value at 60Hz with zero load.

※4 Average sound pressure in 4 directions at no load.



| Item  |                      |                       | NES220TI   |           | NES300TK              |           | NES400TI       |           |      |
|---|----------------------|-----------------------|--|-----------|-----------------------|-----------|----------------|-----------|------|
| Alternator                                  | Frequency            | Hz                    | <b>50</b>  | <b>60</b> | <b>50</b>             | <b>60</b> | <b>50</b>      | <b>60</b> |      |
|   | Output               | kVA                   | 200  | 220       | 270                   | 300       | 350            | 400       |      |
|   |                      | kW                    | 160  | 176       | 216                   | 240       | 280            | 320       |      |
|   | 200V                 | Voltage               | V  | 200       | 220                   | 200       | 220            | 200       | 220  |
|   |                      | Current               | A  | 577       | 577                   | 779       | 787            | 1010      | 1050 |
|   | 400V                 | Voltage <sup>※1</sup> | V  | 400       | 440                   | 400       | 440            | 400       | 440  |
|   |                      | Current <sup>※1</sup> | A  | 289       | 289                   | 390       | 394            | 505       | 525  |
| Type & Power Factor                         |                      |                       | Brushless Alternator, 3-Phase, 4-Wire, 4-Poles, Power Factor 80% Lagging |           |                       |           |                |           |      |
| Diesel Engine                               | Engine model         |                       | ISUZU BH-6UZ1X   |           | KOMATSU SAA6D125E-5-B |           | ISUZU BH-6WG1X |           |      |
|   | Type                 |                       | Direct injection type with turbocharger and intercooler                  |           |                       |           |                |           |      |
|   | Cylinders            |                       | 6  |           | 6                     |           | 6              |           |      |
|   | Bore×Stroke          | mm                    | 125×145  |           | 125×150               |           | 147×154        |           |      |
|   | Displacement         | L                     | 9.839  |           | 11.04                 |           | 15.681         |           |      |
|   | Rated output         | kW                    | 185.2  | 203.7     | 234                   | 259       | 309            | 346       |      |
|   | Revolution           | min <sup>-1</sup>     | 1500   | 1800      | 1500                  | 1800      | 1500           | 1800      |      |
|   | Fuel consumption     | 50% load              | L/H  | 22.1      | 25.8                  | 29.5      | 32.5           | 39.6      | 50.6 |
|   |                      | 75% load              | L/H  | 32.4      | 36.5                  | 42.2      | 46.2           | 55.9      | 67.6 |
|   | Engine oil volume    | L                     | 42   |           | 61                    |           | 52             |           |      |
|   | Battery              |                       | 195G51×2   |           | 170F51×2              |           | 195G51×2       |           |      |
|   | Fuel tank capacity   | L                     | 390  |           | 490                   |           | 490            |           |      |
| Fuel  |                      | Diesel fuel           |  |           |                       |           |                |           |      |
| Oil guard capacity                          | L                    | 435                   |  | 700       |                       | 605       |                |           |      |
| Dimensions and weight                       | Length <sup>※2</sup> | mm                    | 3835   |           | 4000                  |           | 4780(4490)     |           |      |
|   | Width <sup>※1</sup>  | mm                    | 1290   |           | 1445                  |           | 1500           |           |      |
|   | Height               | mm                    | 1790   |           | 1940                  |           | 2200           |           |      |
|   | Dry weight           | kg                    | 3650   |           | 4830                  |           | 5520           |           |      |
|   | Operating weight     | kg                    | 4050   |           | 5350                  |           | 6050           |           |      |
| Sound power level <sup>※3</sup>             | dB                   | 94                    |  | 101       |                       | 97        |                |           |      |
| Sound power level at 7 meters <sup>※4</sup> | dB                   | 64                    | 67   | 68        | 72                    | 66        | 69             |           |      |

※1 **Bold borders** indicate options.

※2 Values in parentheses are dimensions excluding the rain cover.

※3 Value at 60Hz with zero load.

※4 Average sound pressure in 4 directions at no load.

## SPECIFICATIONS



| Item  |                      |                       | NES100EI   |  | NES125EH  |   | NES150EH  |              | NES220EM   |                       |      |
|---|----------------------|-----------------------|------------|--|-----------|---|-----------|--------------|------------|-----------------------|------|
| Alternator                                  | Frequency            | Hz                    | 50         | 60   | 50        | 60  | 50        | 60           | 50         | 60                    |      |
|   | Output               | kVA                   | 80         | 100  | 100       | 125   | 125       | 150          | 195        | 220                   |      |
|   |                      | kW                    | 64         | 80   | 80        | 100   | 100       | 120          | 156        | 176                   |      |
|   | 200V                 | Voltage               | V          | 200  | 220       | 200   | 220       | 200          | 220        | 200                   | 220  |
|   |                      | Current               | A          | 231  | 262       | 289   | 328       | 361          | 394        | 563                   | 577  |
|   | 400V                 | Voltage <sup>※1</sup> | V          | 400  | 440       | 400   | 440       | 400          | 440        | 400                   | 440  |
|   |                      | Current <sup>※1</sup> | A          | 115  | 131       | 144   | 164       | 180          | 197        | 281                   | 289  |
|   | Type & Power Factor  |                       |            | Brushless Alternator, 3-Phase, 4-Wire, 4-Poles, Power Factor 80% Lagging |           |   |           |              |            |                       |      |
|   | Diesel Engine        | Engine model          |            | ISUZU DD-6BG1T   |           | HINO J08C-UD  |           | HINO J08C-UD |            | MITSUBISHI 6D24-TLE2B |      |
|   |                      | Type                  |            | Direct injection type with turbocharger                                  |           | Direct injection type with turbocharger and intercooler |           |              |            |                       |      |
| Cylinders                                   |                      |                       | 6          |  | 6         |   | 6         |              | 6          |                       |      |
| Bore × Stroke                               |                      | mm                    | 105 × 125  |  | 114 × 130 |   | 114 × 130 |              | 130 × 150  |                       |      |
| Displacement                                |                      | L                     | 6.494      |  | 7.961     |   | 7.961     |              | 11.94      |                       |      |
| Rated output                                |                      | kW                    | 73.6       | 91.2   | 118       | 140   | 118       | 140          | 181        | 199                   |      |
| Revolution                                  |                      | min <sup>-1</sup>     | 1500       | 1800   | 1500      | 1800  | 1500      | 1800         | 1500       | 1800                  |      |
| Fuel consumption                            |                      | 50% load              | L/H        | 9.8  | 12.6      | 11.8  | 14.7      | 14.1         | 17.6       | 22.1                  | 26.5 |
|   |                      | 75% load              | L/H        | 13.6   | 17.6      | 16.7  | 20.0      | 20.0         | 24.0       | 30.9                  | 36.6 |
| Engine oil volume                           |                      | L                     | 20         |  | 24.5      |   | 24.5      |              | 37         |                       |      |
| Battery                                     |                      |                       | 95D31R × 2 |  |           |   |           |              | 150F51 × 2 |                       |      |
| Fuel tank capacity                          |                      | L                     | 200        |  | 250       |   | 250       |              | 370        |                       |      |
| Fuel  |                      | Diesel fuel           |            |  |           |   |           |              |            |                       |      |
| Oil guard capacity                          | L                    | —                     |            | —  |           | —   |           | —            |            |                       |      |
| Dimensions and weight                       | Length <sup>※2</sup> | mm                    | 2730       |  | 3180      |   | 3180      |              | 3840       |                       |      |
|   | Width <sup>※1</sup>  | mm                    | 1050       |  | 1130      |   | 1130      |              | 1290       |                       |      |
|   | Height               | mm                    | 1290       |  | 1450      |   | 1450      |              | 1750       |                       |      |
|   | Dry weight           | kg                    | 1650       |  | 2170      |   | 2270      |              | 3530       |                       |      |
|   | Operating weight     | kg                    | 1850       |  | 2420      |   | 2520      |              | 3910       |                       |      |
| Sound power level <sup>※3</sup>             | dB                   | 93                    |            | 94   |           | 95  |           | 95           |            |                       |      |
| Sound power level at 7 meters <sup>※4</sup> | dB                   | 65                    |            | 66   |           | 67  |           | 67           |            |                       |      |

※1 **Bold borders** indicate options.

※2 Values in parentheses are dimensions excluding the rain cover.

※3 Value at 60Hz with zero load.

※4 Average sound pressure in 4 directions at no load.



| Item  |                      |                       | NES400EM    |  | NES500EM   |                          | NES610SM    |  | NES800SM           |                      |      |
|---|----------------------|-----------------------|-------------|--|------------|--------------------------|-------------|--|--------------------|----------------------|------|
| Alternator                                  | Frequency            | Hz                    | <b>50</b>   | <b>60</b>  | <b>50</b>  | <b>60</b>                | <b>50</b>   | <b>60</b>  | <b>50</b>          | <b>60</b>            |      |
|   | Output               | kVA                   | 350         | 400  | 450        | 500                      | 554         | 610  | 700                | 800                  |      |
|   |                      | kW                    | 280         | 320  | 360        | 400                      | 443         | 488  | 560                | 640                  |      |
|   | 200V                 | Voltage               | V           | 200  | 220        | 200                      | 220         | 200  | 220                | 200                  | 220  |
|   |                      | Current               | A           | 1010   | 1050       | 1299                     | 1312        | 1599   | 1600               | 2021                 | 2100 |
|   | 400V                 | Voltage <sup>※1</sup> | V           | 400  | 440        | 400                      | 440         | 400  | 440                | 400                  | 440  |
|   |                      | Current <sup>※1</sup> | A           | 505  | 525        | 650                      | 656         | 800  | 800                | 1010                 | 1050 |
|   | Type & Power Factor  |                       |             | Brushless Alternator, 3-Phase, 4-Wire, 4-Poles, Power Factor 80% Lagging |            |                          |             | Brushless Alternator, 3-Phase, 4-Wire, 4-Poles, Power Factor 80% Lagging |                    |                      |      |
|   | Diesel Engine        | Engine model          |             | MITSUBISHI S6B3-E2PTAA-3   |            | MITSUBISHI S6A3-E2PTAA-1 |             | MITSUBISHI S6R-PTA   |                    | MITSUBISHI S12A2-PTA |      |
|   |                      | Type                  |             | Direct injection type with turbocharger and intercooler                  |            |                          |             |  |                    |                      |      |
| Cylinders                                   |                      |                       | 6           |  | 6          |                          | 6           |  | 12                 |                      |      |
| Bore×Stroke                                 |                      | mm                    | 135×170     |  | 150×175    |                          | 170×180     |  | 150×160            |                      |      |
| Displacement                                |                      | L                     | 14.6        |  | 18.56      |                          | 24.5        |  | 33.9               |                      |      |
| Rated output                                |                      | kW                    | 309         | 346  | 405        | 467                      | 517         | 565  | 676                | 757                  |      |
| Revolution                                  |                      | min <sup>-1</sup>     | 1500        | 1800   | 1500       | 1800                     | 1500        | 1800   | 1500               | 1800                 |      |
| Fuel consumption                            |                      | 50% load              | L/H         | 38.5   | 47.5       | 49.9                     | 61.0        | 60.2   | 72.9               | 82.2                 | 105  |
|   |                      | 75% load              | L/H         | 55.1   | 67.4       | 71.8                     | 86.1        | 84.0   | 99.2               | 113                  | 141  |
| Engine oil volume                           |                      | L                     | 50          |  | 80         |                          | 92          |  | 130 (+Sub Tank 85) |                      |      |
| Battery                                     |                      |                       | 195G51×2    |  |            |                          | 195G51×2    |  | 195G51×4           |                      |      |
| Fuel tank capacity                          |                      | L                     | 490         |  | 490        |                          | 580         |  | 730                |                      |      |
| Fuel  |                      |                       | Diesel fuel |  |            |                          | Diesel fuel |  |                    |                      |      |
| Oil guard capacity                          | L                    | —                     |             | —  |            | —                        |             | —  |                    |                      |      |
| Dimensions and weight                       | Length <sup>※2</sup> | mm                    | 4550        |  | 5270(4790) |                          | 5173(4690)  |  | 6235(5600)         |                      |      |
|   | Width <sup>※1</sup>  | mm                    | 1415        |  | 1650       |                          | 1650        |  | 1950               |                      |      |
|   | Height               | mm                    | 2090        |  | 2280       |                          | 2400        |  | 2580               |                      |      |
|   | Dry weight           | kg                    | 5510        |  | 6810       |                          | 8190        |  | 11900              |                      |      |
|   | Operating weight     | kg                    | 6030        |  | 7400       |                          | 8860        |  | 12900              |                      |      |
| Sound power level <sup>※3</sup>             | dB                   | 101                   |             | 98   |            | 101                      |             | 101  |                    |                      |      |
| Sound power level at 7 meters <sup>※4</sup> | dB                   | 71                    |             | 68   |            | 72                       |             | 73   |                    |                      |      |

※1 **Bold borders** indicate options.

※2 Values in parentheses are dimensions excluding the rain cover.

※3 Value at 60Hz with zero load.

※4 Average sound pressure in 4 directions at no load.

## LIST OF OPTIONS



Anti-theft cover



Skid



Panel door with key



Fuel filler with key

● : Standard    ○ : Options are applicable at time of factory shipment

| Option                               | Tier 3 version engine model       |           |            |           |            |           |            |            |            |            |
|--------------------------------------|-----------------------------------|-----------|------------|-----------|------------|-----------|------------|------------|------------|------------|
|                                      | NES 25TK                          | NES 25TKL | NES 25TKLS | NES 45TY3 | NES 45TYL3 | NES 60TK2 | NES 60TKL2 | NES 100T12 | NES 125T12 | NES 150T12 |
| Parallel running                     | Full-auto parallel running device | —         | —          | —         | —          | —         | —          | —          | —          | —          |
|                                      | Manual synchronizing device       | —         | —          | —         | —          | —         | —          | —          | —          | ○          |
|                                      | Percent power meter               | —         | —          | —         | —          | —         | —          | —          | —          | —          |
| Operation control                    | e-Pon (Simple auto starter)       | —         | ○          | ○         | ○          | ○         | ○          | ○          | ○          | ○          |
|                                      | Energy-saving remote controller   | —         | —          | —         | —          | —         | —          | ○          | ○          | ○          |
|                                      | Slowdown device                   | —         | —          | —         | —          | —         | —          | —          | —          | —          |
| Oil / Fuel                           | Oil guard                         | ●         | ●          | ●         | ●          | ●         | ●          | ●          | ●          | ●          |
|                                      | Fuel tank three-way cock          | ●         | —          | —         | ●          | —         | ●          | —          | ●          | ●          |
|                                      | Automatic oil supply unit         | —         | —          | —         | —          | —         | —          | —          | —          | —          |
|                                      | Oil drain pump                    | —         | —          | —         | —          | —         | —          | —          | —          | —          |
|                                      | Fuel supply device                | —         | —          | —         | —          | —         | —          | —          | —          | —          |
| Others                               | Leak detection set at 200mA       | ○         | ○          | ○         | ○          | ○         | ○          | ○          | ○          | ○          |
|                                      | Salt resistance *                 | ○         | ○          | ○         | ○          | ○         | ○          | ○          | ○          | ○          |
|                                      | Rain cover *                      | —         | —          | —         | —          | —         | —          | —          | —          | —          |
|                                      | Anti-theft cover                  | ○         | ○          | ○         | ○          | ○         | ○          | ○          | ○          | ○          |
|                                      | Skid                              | ○         | ○          | ○         | ○          | ○         | ○          | ○          | ○          | ○          |
|                                      | Panel door with key               | ○         | ○          | ○         | ○          | ○         | ○          | ○          | ○          | ○          |
|                                      | Fuel filler with key              | ●         | ○          | ○         | ○          | ○         | ○          | ○          | ○          | ○          |
| Output terminal rubber backing sheet | ●                                 | ●         | ●          | ○         | ○          | ○         | ○          | ○          | ○          |            |

\* 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 above.  
 Some combinations of options are not available. Please consult with Nippon Sharyo for more information.





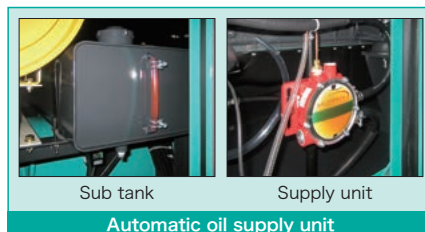
Energy-saving remote controller



Slowdown device



Fuel tank three-way cock



Sub tank Supply unit  
Automatic oil supply unit



Output terminal rubber backing sheet

● : Standard ○ : Options are applicable at time of factory shipment

| Option            |                                      | Tier 3 version engine model |           |           |           |           |           |           |           |           |           |           |
|-------------------|--------------------------------------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                   |                                      | 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    | ○                           | ○         | ○         | —         | —         | —         | ○         | ○         | ○         | ○         | ○         |
|                   | Manual synchronizing device          | ○                           | ●         | ●         | —         | ○         | ○         | ○         | ●         | ●         | ●         | ●         |
|                   | Percent power meter                  | ○                           | ○         | ○         | —         | —         | —         | ○         | ○         | ○         | ○         | ○         |
| Operation control | e-Pon (Simple auto starter)          | ○                           | ○         | ○         | —         | —         | —         | —         | —         | —         | —         | —         |
|                   | Energy-saving remote controller      | ○                           | ○         | ○         | —         | ○         | ○         | ○         | ○         | ○         | ○         | ○         |
|                   | Slowdown device                      | ○                           | ○         | ○         | —         | —         | —         | ○         | ○         | ○         | ○         | ○         |
| Oil / Fuel        | Oil gurad                            | ●                           | ●         | ●         | —         | —         | —         | —         | —         | —         | —         | —         |
|                   | Fuel tank three-way cock             | ●                           | ●         | ○         | ●         | ●         | ●         | ●         | ○         | ○         | ○         | ○         |
|                   | Automatic oil supply unit            | ○                           | ○         | ○         | —         | —         | —         | ○         | ○         | ○         | ○         | ●         |
|                   | Oil drain pump                       | ○                           | ○         | ○         | —         | —         | —         | ○         | ○         | ○         | ○         | ○         |
|                   | Fuel supply device                   | ○                           | ○         | ○         | —         | —         | —         | ○         | ○         | ○         | ○         | ○         |
| Others            | Leak detection set at 200mA          | ○                           | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         |
|                   | Salt resistance *                    | ○                           | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         |
|                   | Rain cover *                         | —                           | —         | ●         | —         | —         | —         | ○         | ○         | ●         | ●         | ●         |
|                   | Anti-theft cover                     | ○                           | —         | —         | ●         | ○         | ○         | ○         | —         | —         | —         | —         |
|                   | Skid                                 | ○                           | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         |
|                   | Panel door with key                  | ○                           | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         |
|                   | Fuel filler with key                 | ○                           | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ○         |
|                   | Output terminal rubber backing sheet | ○                           | ○         | ○         | ○         | ○         | ○         | ○         | ○         | ●         | ●         | ●         |

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

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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



### First generator developed

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

Toughness 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

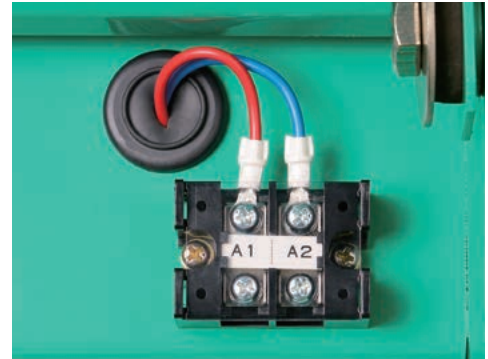
We have several options and we will show typical options in this page.

## 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 CO<sub>2</sub> 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

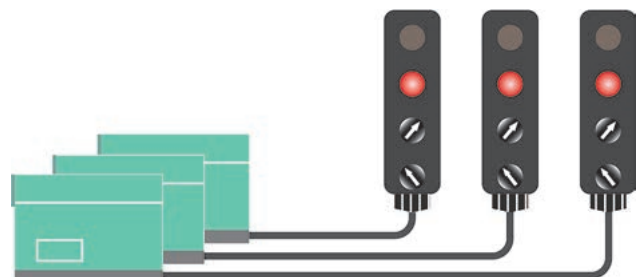
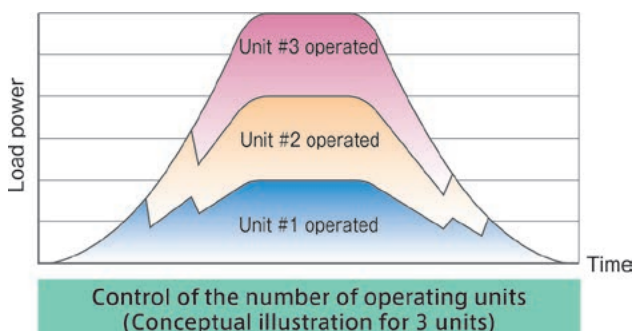
This controller includes auto start/stop, synchronizing, load sharing, controlling the number of operating units, and measurement and protection, allowing fully automatic parallel running of generators. The number of operating generators are automatically controlled so that the optimum number are in 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



Front panel





Pile Driving Rig



Soil Stabilizing Rig



Earth Drilling Rig



Casing Rotator (RT)

Manufacturer

 **NIPPON SHARYO**

[http://www.n-sharyo.co.jp/index\\_e.html](http://www.n-sharyo.co.jp/index_e.html)

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Due to company policy of continuous development and improvement, NIPPON SHARYO reserves the right to change designs and specifications without notice.

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