

# YEG140/150 DSHS

Generator Output: 8.8~10.1kVA



IMAGE MAY VARY

# The New YEG Series Know the Dependability and Economy of World Class Power Generation

Quiet, safe, clean and ready to use, the YEG140/150 generator sets are the top quality, straight forward answer to your power needs. You get the advantages of 2 pole generation in a newly enhanced, durable, cost saving form.

## Quiet and Good to the Environment

The first thing you notice about the YEG generators is that there is so little noise. Yanmar's own CAE techniques have gauged the stiffness of materials just right and damped radiant noise. Those methods have also produced the perfect muffler materials. It all adds to the low noise that is ideal for use in urban and residential areas.

The all-round people-friendliness is obvious in the exhaust data, too, thanks to the Yanmar diesel engines. The YEG also satisfies EPA Tier 4.

The YEG series is kind to the environment. Beside low noise and emissions, it contains no asbestos, mercury, polybrominated biphenyl, polybrominated diphenyl ether or cadmium. The use of safe materials was a core theme from the word go.

## Compact, Powerful and Long-Lasting

Yanmar has a long tradition of producing world-leading small, high-speed, hard-working engines which in combination with the superb single-phase generators have been tried and tested in many harsh working environments.

The engines are Yanmar's state-of-the-art small industrial engines, now even more durable than ever due to enhanced block cooling, stiffer cranks and pistons, finer journal and other tolerances. The gensets have protective devices against lubrication oil pressure drop, excessive water temperature rise and faulty battery charging. These are gensets that will continue to run and run.

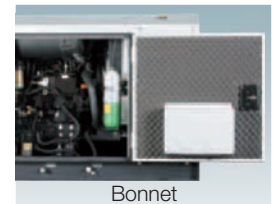
## Fuel Thrifty and Easy to Run, Simple to Maintain

Yanmar has developed a remarkable new shape for the air flow of the combustion chamber through a rigorous process of experimentation and analysis. It achieves greater mixing of fuel with air that maximises air use and minimises fuel consumption. The combination of low fuel consumption engines with high- efficiency power generation makes these quality gensets remarkably cheap to run.

The convenience extends to every aspect of use and maintenance. You can put the light and compact YEG almost anywhere without the special foundation work, and all components are mounted on the single bed. Specially designed anti-vibration blocks establish even smoother running. The various filters and battery are located on the same side as the instrument panel for straightforward daily inspection and handling. The YEG is a dream series for sureness and simplicity of use.

## All the Safety of Yanmar

Full attention is given to the fine details of safety and dependability that count for so much. The output terminals are covered and placed well away from the instrument panel to prevent electric shocks etc. and an earth terminal is included. All rotating parts are well covered for accident-free operation. The use of damper coils in the brushless, AVR generation increases reliability still further by equalizing wave distortion.



Bonnet



Control panel: YEG140

| Model                       |                                     |                       | YEG140DSHS                       | YEG150DSHS                             |              |
|-----------------------------|-------------------------------------|-----------------------|----------------------------------|--|--------------|
| Frequency                   |                                     |                       | 50Hz                             | 50Hz                                   |              |
| Generator                   | Output                              | Stand-by power rating | kVA<br>8.8                       | 10.1                                   |              |
|                             |                                     | Prime power rating    | kVA<br>8.0                       | 9.1                                    |              |
|                             | Voltage                             |                       | V<br>220, 230, 240               | 220, 230, 240                          |              |
|                             | Current (Prime)                     |                       | A<br>36.4, 34.8, 33.3            | 16.4, 15.6, 15.0                       |              |
|                             | Phase and wire                      |                       | Single Phase, 2-wire             | Single Phase, 2-wire                   |              |
| Power factor                |                                     |                       | %                                |  |              |
| Insulation class            |                                     |                       | Class F (Stator, rotor)          |  |              |
| No. of poles                |                                     |                       | 2                                |  |              |
| Excitation                  |                                     |                       | Brushless (with damper coil) AVR |  |              |
| Engine                      | Type                                |                       |                                  | Vertical, 4-cycle, water-cooled diesel |              |
|                             | Model                               |                       |                                  | 3TNM68-HGB2B                           | 3TNV70-HGB2B |
|                             | No. of cycles - bore x stroke       |                       |                                  | mm<br>3-68X72                          | 3-70X74      |
|                             | Displacement                        |                       |                                  | lit.<br>0.784                          | 0.854        |
|                             | Continuous rating output            |                       |                                  | kW<br>10.5                             | 12.1         |
|                             | Rated output                        |                       |                                  | kW<br>11.5                             | 13.3         |
|                             | Revolutions min <sup>-1</sup> (rpm) |                       |                                  | 3000                                   | 3000         |
|                             | Combustion system                   |                       |                                  | Indirect injection (IDI)               |              |
|                             | Cooling system                      |                       |                                  | Radiator                               |              |
|                             | Aspiration                          |                       |                                  | Natural Aspiration                     |              |
|                             | Lubricating system                  |                       |                                  | Forced lubrication by trochoid pump    |              |
|                             | Starting system                     |                       |                                  | Electric starting                      |              |
|                             | Fuel                                |                       |                                  | Diesel fuel (BS2869A1 or equivalent)   |              |
|                             | Lubricant                           |                       |                                  | SAE 10W-30, API class: CD or higher    |              |
|                             | Cooling water qty                   | Engine                |                                  | lit.<br>1.0                            | 0.9          |
|                             |                                     | Radiator              |                                  | lit.<br>1.6                            | 1.2          |
|                             | Lubricant qty                       | Total                 |                                  | lit.<br>3.2                            | 3.8          |
| Effective                   |                                     | lit.<br>1.5           | 1.7                              |  |              |
| Starting motor              |                                     |                       | V-kW<br>12-1.2                   | 12-1.0                                 |              |
| Charging dynamo             |                                     |                       | V-A<br>12-40                     | 12-15                                  |              |
| Battery (5HR)               |                                     |                       | V-Ah<br>12-45                    | 12-52                                  |              |
| Fuel consumption (75% load) |                                     |                       | lit./hr<br>2.9                   | 3.1                                    |              |
| Noise level (4/4load, 7m)   |                                     |                       | dB(A)<br>68                      | 68                                     |              |
| Fuel tank capacity          |                                     |                       | lit.<br>38                       | 50                                     |              |
| Dry weight                  |                                     |                       | kg<br>299                        | 400                                    |              |
| Unit Dimension              | Length                              |                       | mm<br>1300                       | 1400                                   |              |
|                             | Width                               |                       | mm<br>640                        | 660                                    |              |
|                             | Height                              |                       | mm<br>690                        | 900                                    |              |

Note : All data subject to alteration without notice.



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