

DIESEL GENERATORS

YEGseries

[2-pole, 3-phase generators]

Generator Output
13.3~45.2kVA



DIMENSIONS Unit:mm(in.)

	Canopy type					Silent type				
Construction										
Model	YEG150DTHC	YEG200DTHC	YEG300DTHC	YEG400DTHC	YEG500DTHC	YEG150DTHS	YEG200DTHS	YEG300DTHS	YEG400DTHS	YEG500DTHS
L	1200(47.24)	1300(51.18)	1480(58.27)	1480(58.27)	1480(58.27)	1400(55.12)	1600(62.99)	1600(62.99)	1830(72.05)	1830(72.05)
W	610(24.02)	670(26.38)	670(26.38)	670(26.38)	670(26.38)	660(25.98)	700(27.56)	700(27.56)	700(27.56)	700(27.56)
H	850(33.46)	920(36.22)	920(36.22)	920(36.22)	920(36.22)	900(35.43)	950(37.40)	950(37.40)	950(37.40)	950(37.40)

ACCESSORIES

○:Standard▲:Option

Model	Canopy type	YEG150DTHC	YEG200DTHC	YEG300DTHC	YEG400DTHC	YEG500DTHC
	Silent type	YEG150DTHS	YEG200DTHS	YEG300DTHS	YEG400DTHS	YEG500DTHS
Generator control panel	Frequency meter	○(silent type only)	○(silent type only)	○	○	○
	AC voltmeter	○	○	○	○	○
	AC ammeter	○(silent type only)	○(silent type only)	○	○	○
	Ammeter select switch	▲(silent type only)	▲(silent type only)	▲	▲	▲
	Voltage regulator	○(silent type only)	○(silent type only)	○	○	○
	Circuit breaker	○	○	○	○	○
	Pilot lamp	○(silent type only)	○(silent type only)	○	○	○
Engine control panel	Hour meter	○	○	○	○	○
	Fuel level gauge	○	○	○	○	○
	Starting key switch	○	○	○	○	○
	Emergency stop button	○(silent type only)	○(silent type only)	○	○	○
	Warning lamp	Water temp.	○	○	○	○
		L.O press.	○	○	○	○
		Battery charge	○	○	○	○
Protection system	High water temp.	○	○	○	○	○
	Low oil press.	○	○	○	○	○
	Battery charge	○	○	○	○	○
	Over current shut off trip	○	○	○	○	○
Output terminal	3-phase, 4-wire terminals	○	○	○	○	○
	Ground terminal	○	○	○	○	○
Others	Remote start/stop system	▲	▲	▲	▲	▲
	Automatic start/stop system	▲	▲	▲	▲	▲
	Tarminal for AMF/ATS panels	▲	▲	▲	▲	▲
	Wheel	▲	▲	▲	▲	▲

OPTIONAL PARTS

Automatic Mains Failure Panel

Against power cuts in the commercial supply, the YEG can be set to start automatically when the power goes off, and stop when it comes back on. You know that you can trust the New YEG to do the work that is needed, and stop when you don't want it on.



Tarminal for AMF/ATS panels



Control panel:YEG500DTHC

Note : All data subject to alteration without notice.

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

Quiet, safe, clean and ready to use, the New YEG series generator sets are the top-quality, straightforward answer to your power needs. You get the advantages of 2-pole generation in a newly enhanced, durable, cost-saving form, and the old noise of high-speed operation simply no longer applies. That is worth repeating for clients who don't trust the durability of 2-pole units. You'll change your mind with this superb Yanmar engine inside! Two versions are available: the canopy and sound proofed bonnet models, depending on what you need.

Quiet and Good to the Environment

The first thing you notice about the New YEG series 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 volumes and optimum use of sound isolation materials. It all adds up to extra-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 TNV engines. The New YEG150 and YEG200 satisfy EPA Tier 4. They feature even better flow mixing in the main chamber and the special mouth around the injector, plus efficient use of incoming air for cleaner burning and low emissions. The New YEG series gives the air and fuel charging more fluid energy. The swirl continues during combustion for even better mixing and lower emissions.



The New 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-beating small, high-speed, hard-working engines. Their combination here with superb 3-phase, 4-wire generators, tried and tested in many harsh working environments across Asia and the Middle East, brings substantially bigger generation capacity for the same package size. Both the canopy and sound proofed bonnet versions are lightweight and take up very little space.

The TNV 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, and finer journal and other tolerance. 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 great mixing of fuel with air that maximizes air use and minimizes 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 New YEG almost anywhere without 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 big fuel tank is good for over 8 hours' continuous use at 70% load.

In fact, all engine, generator and power functions are operated from a single location, and the control panel is big, high up and easy to see! The New 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 way from the instrument panel to prevent electric shocks etc. An earth terminal is included. All rotating parts are well covered, too, for accident-free operation. The use of damper coils in the brushless, AVR generation increases reliability still further by equalizing wave distortion.

You can trust Yanmar, too, because as a New YEG series owner you qualify for the extensive support, service and parts supply of Yanmar's worldwide network. That is the security of being a valued part of Yanmar's global family.



SPECIFICATIONS

SPECIFICATIONS												Model*1: Suffix-"C" for canopy, and -"S" for silent type		Model*2: Suffix-"C" for canopy, and -"B" for silent type	
Model*1	Canopy type			YEG150DTHC		YEG200DTHC		YEG300DTHC		YEG400DTHC		YEG500DTHC			
	Silent type			YEG150DTHS		YEG200DTHS		YEG300DTHS		YEG400DTHS		YEG500DTHS			
	Frequency			50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50HZ			
Generator	Outout	Stand-by power rating	kVA	13.3	16	16.9	20	25.2	29.4	35	40.1	45.2			
			kW	10.6	12.8	13.5	16	20.1	23.5	28	32	36.1			
		Prime power rating	kVA	12	14.5	15.3	18.2	23	26.8	31.8	36.9	40			
			kW	9.6	11.6	12.3	14.5	18.4	21.4	25.4	29.5	32			
	Voltage		V	380	380/220	380	380/220	380	380/220	380	380/220	380			
	Current (prime power)		A	18.2	22.0/38.1	23.2	27.7/47.8	34.9	40.7/70.3	48.3	56.1/96.8	60.8			
	Voltage (single phase)		V	220	220/127	220	220/127	220	220/127	220	220/127	220			
	Revolutions min ⁻¹ (rpm)			3000	3600	3000	3600	3000	3600	3000	3600	3000			
	Phase and wire			3-phase, 4-wire											
	Power factor		%	80 (delay)											
Engine	Insulation			F (Stator, rotor)											
	No. of poles			2											
	Excitation			Brushless (with damper coil)AVR											
	Type			Vertical, 4-cycle, water-cooled diesel											
	Model*2	Canopy type		3TNV70-HGB2C		3TNV76-HGB2C		3TNE84-GB2C		4TNE84-GB2C		4TNE84T-GB2C			
		Silent type		3TNV70-HGB2B		3TNV76-HGB2B		3TNE84-GB2B		4TNE84-GB2B		4TNE84T-GB2B			
	No. of cyls-bore x stroke		mm	3-70 X 74		3-76 X 82		3-84 X 90		4-84 X 90		4-84 X 90			
	Displacement		lit.	0.854		1.116		1.496		1.995		1.995			
	Continuous rating output		kW	12.1	14.5	15.1	17.7	22.4	26.1	29.9	34.7	37.1			
	Rated output		kW	13.3	16	16.5	19.5	24.6	28.7	32.9	38.2	41.2			
Revolutions min ⁻¹ (rpm)			3000/3600												
Combustion system			Swirl pre-combustion (IDI)					Direct injection							
Cooling system			Radiator												
Aspiration			NA									TC			
Lubricating system			Forced lubrication												
Starting system			Electric												
Fuel			Diesel fuel												
Lubricant			API service: CD grade												
Cooling water	Engine	lit.	0.9		0.9		2		2.7		2.7				
	Radiator	lit.	1.2		1.2		1.2		2.4		2.4				
Lubricant qty	Total	lit.	3.8		4.4		7.5		7.9		7.9				
	Effective	lit.	1.7		2.1		2		2.5		2.5				
Starting motor		V-kW	12-1.0		12-1.1		12-1.2		12-1.4		12-1.4				
Charging dynamo		V-A	12V- 15A												
Battery (5HR)		V-AH	12-52 (65D26R)					12-60 (75D31R)							
Fuel consumption(70% load)		lit./hr	3.1	3.6	3.9	4.5	4.6	5.7	6.2	7.6	7.7				
Noise level (4/4load, 7m)		dB(A)	74	76	76	80	83	87	86	90	86				
UNIT (canopy type)	Fuel tank capacity		lit.	40			60		70						
	Dry weight		kg	300		310		430		480		500			
UNIT (silent type)	Noise level (4/4load, 7m)		dB(A)	68	71	70	73	67	73	68	71	69			
	Fuel tank capacity		lit.	50			70		70						
	Dry weight		kg	400		435		585		685		715			