

YANMAR®

DIESEL GENERATORS

YEG series

[4-pole, Single-phase generators]

Generator Output
10.8~54.3kVA



DIMENSIONS Unit=mm(in.)

Construction	Canopy type			Silent type				
	Model	YEG170DSLCL	YEG230DSLCL	YEG170DSL	YEG230DSL	YEG450DSL	YEG650DSL	YEG750DSL
L	1300(51.2)	1480(58.3)	1600(63.0)	1600(62.99)	1830(72.05)	2050(80.71)	2350(92.52)	2350(92.52)
W	670(26.4)	670(26.4)	750(29.5)	700(27.56)	700(27.56)	750(29.53)	920(36.22)	920(36.22)
H	920(36.2)	920(36.2)	1000(39.4)	950(37.40)	950(37.40)	1050(41.34)	1350(53.15)	1350(53.15)

ACCESSORIES

○:Standard ▲:Option

Model	Canopy type	YEG170DSLCL	YEG230DSLCL	YEG450DSLCL	-	-
	Silent type	YEG170DSL	YEG230DSL	YEG450DSL	YEG650DSL	YEG750DSL
Generator control panel	Frequency meter	○	○	○	○	○
	AC voltmeter	○	○	○	○	○
	AC ammeter	○	○	○	○	○
	Ammeter select switch	▲	▲	▲	▲	▲
	Voltage regulator	○	○	○	○	○
	Circuit breaker	○	○	○	○	○
Engine control panel	Pilot lamp	○	○	○	○	○
	Hour meter	○	○	○	○	○
	Fuel level gauge	○	○	○	○	○
	Starting key switch	○	○	○	○	○
	Emergency stop button	○	○	○	○	○
	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	Single-phase, 2-wire	○	○	○	○	○
	Ground terminal	○	○	○	○	○
Others	Remote start/stop system	▲	▲	▲	▲	▲
	Automatic start/stop system	▲	▲	▲	▲	▲
	Terminal 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.



Terminal for AMF/ATS panels



Control panel:YEG450DSL

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 4-pole generation in a newly enhanced, durable, cost-saving form

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 engine. It features 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.



Silent bonnet

Compact, Powerful and Long-lasting

Yanmar has a long tradition of producing world-beating small, hard-working engines. Their combination here with superb Single-phase, Two-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. The sound proofed bonnet is lightweight and takes 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 15~25 hours' continuous use at 70% load for.

YEG170,230 and 450, and good for 10~15 hours for YEG650 and 750.

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.



Side view



Silent type



Canopy type

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		YEG170DSL		YEG230DSL		YEG450DSL		-		-				
	Silent type		YEG170DSL		YEG230DSL		YEG450DSL		YEG650DSL		YEG750DSL				
Frequency			50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			
Generator	Output	Stand-by power rating	kVA	10.8	13.0	14.4	17.3	28.2	33.5	38.6	45.5	45.7	54.3		
			kW	10.8	13.0	14.4	17.3	28.2	33.5	38.6	45.5	45.7	54.3		
		Prime power rating	kVA	9.8	11.8	13.1	15.7	25.2	29.8	35.1	41.3	41.5	49.3		
	kW		9.8	11.8	13.1	15.7	25.2	29.8	35.1	41.3	41.5	49.3			
	Voltage			V 50Hz: 220,240 60Hz: 110/120, 120/240											
	Revolutions			min ⁻¹ (rpm) 1500 1800 1500 1800 1500 1800 1500 1800 1500 1800 1500 1800											
	Phase and wire			Single-phase, Two-wire											
	Power factor			%											
	Insulation			F(Stator,rotor)						H(Stator,rotor)					
	No. of poles			4											
Excitation			Brushless (with damper coil)AVR												
Engine	Type			Vertical, 4-cycle, water-cooled diesel											
	Model*2	Canopy type	3TNV88-GGB1C		4TNV88-GGB1C		4TNV98-GGB1C		-		-				
		Silent type	3TNV88-GGB1B		4TNV88-GGB1B		4TNV98-GGB1B		4TNV106-GGB1B		4TNV106T-GGB1				
	No. of cyls- bore x stroke			mm 3 - 88 X 90		4 - 88 X 90		4 - 98 X 110		4 - 106 X 125		4 - 106 X 125			
	Displacement			lit. 1.642		2.190		3.319		4.412		4.412			
	Continuous rating output			kW 12.2		14.9		16.5		19.9		30.7		36.4	
	Rated output			kW 13.4		16.4		18.2		21.9		34.1		40.8	
	Revolutions			min ⁻¹ (rpm) 1500/1800											
	Combustion system			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.	2		2.7		4.2		6		6			
			lit.	1.2		2.2		3.8		3.8		3.8			
Total		lit.	6.7		7.4		10.5		14		14				
		Effective	lit.	2.8		3.4		5.5		9		9			
Starting motor			V-kW 12-1.2		12-1.4		12-2.3		12-3.0		12-3.0				
Charging dynamo			V-A 12V-15A		12V-15A		12V-20A		12V-60A		12V-60A				
Battery (5HR)			V-AH 12-60(75D31)		12-60(75D31)		12-64(95D31)		12-88(115E41)		12-88(115E41)				
Fuel consumption(70% load)			lit./hr 2.31		2.87		2.94		3.71		5.53		6.86		
Noise level (4/4load, 7m)			dB(A) 72		74		74		76		78		81		
UNIT (canopy type)	Fuel tank capacity			lit. 60		70		120		-		-			
	Dry weight			kg 440		515		715		-		-			
UNIT (silent type)	Noise level (4/4load, 7m)			dB(A) 59		64		63		65		63		65	
	Fuel tank capacity			lit. 60		70		120		130		130			
Dry weight			kg 575		635		890		1210		1230				