

POWER GENERATORS

Silent & Open Type



Powered By



Our Product

Once again, Yamagen have created a world-class diesel generating sets to meet the requirement of the growing demand for the non-standard high specification generating plant. With Yamagen's experience of more than 30 years and the combination of new technology, we proudly present to you our latest YTG series, featuring the durable Yanmar water cooled diesel engine, which is sophisticated yet practical, and now available in 6-models selection. The YTG series are also packed in three useful ways to suit your site requirements, namely in an open frame, bonnet, and or on a tough transport bed.

Total Package

Over the years, our company have had the facilities, experiences, and capabilities to offer design and application engineering, manufacturing, installation and servicing of a comprehensive product range of highly reliable and durable generating sets developed to meet the needs for high performance and economical cost of ownership.

Customer Support

It is our aim to fully support our customers with a technical advisory service, whether the requirement is for the simple start generators, or multiple sets installation. Our customer support is provided not only at the time of sales, but also for the years to come. The owners of the Yanmar YTG series can rely on our after sales services provided for the maintenance of any of the generating sets in operating condition. We also hold the detailed records of the make-up parts of every set, so that our customers can easily obtain the spare equipment from our own stocks. Prompt dispatch, delivery and installation integral to this service is offered throughout the Far East region.

Special Features

- ♣ Compact and light with all components mounted on a single bed
- ♣ Brush-free exciter takes away the need for brush inspection and maintenance
- ♣ All regular maintenance points are on the same side
- ♣ Self-protecting unit with auto shutdown in the event of oil pressure drop of overheating
- ♣ Fuel-efficient with operating stability
- ♣ 3 phase - 4 wires applicable for single-phase operation
- ♣ Better block cooling
- ♣ Enhanced durability
- ♣ Stiffer crank and pistons
- ♣ Ability to perform in some of the world's most adverse condition

Rating & Dimension

A C	Output rating (kVA)	50 Hz	380V	Prime	5.5	11.0	15.0	20.0	33.0	50.0	
				Standby	6.0	12.0	16.5	22.0	35.0	55.0	
		60 Hz	440V	Prime	-	13.0	18.0	25.0	38.0	60.0	
				Standby	-	14.5	20.0	27.5	43.0	65.0	
	G e n e r a t o r	Rated current (A)	50 Hz	Prime	25.0	16.7	22.8	30.4	50.1	76.0	
				Standby	27.2	18.2	25.1	33.4	53.2	83.6	
			60 Hz	Prime	-	17.1	23.6	32.8	49.9	78.7	
				Standby	-	19.0	26.2	36.1	56.4	85.3	
	Rated frequency/ rated speed	50 Hz	1500 RPM								
		60 Hz	1800 RPM								
No. of poles	4 poles										
Phase and wire	1-Phase 2-Wire					3-Phase 4-Wire					
Power factor	1.0					0.8 (lagging)					
Voltage regulation	Within +/- 1.5 %										
Excitation	Brushless, Rotating Exciter (With AVR)										
Insulation	Class 'F'										
E n g i n e	Model				3TNE74	3TNE84	4TNE84	4TNE84T	4TNE98	4TN100TE	
	Type of combustion chamber				In-Direct		Direct Injected				
	Air intake system				NA			TC	NA	TC	
	Output rating (HP)	1500 RPM (50 Hz)			10.6	15.2	20.0	25.6	41.4	58.4	
		1800 RPM (60 Hz)			-	18.1	23.7	32.6	49.3	69.9	
	Rated speed (50/60 Hz, rpm)				1500	1500 / 1800					
	Bore (mm) x stroke (mm)				74 x 78	84 x 90			98x110	100x110	
	Piston displacement (cm3)				1006	1496	1995		3319	3455	
	No. of cylinders				3			4			
	Fuel				Diesel Fuel ASTM 2D						
	Fuel Consumption (L/hr) at 100% load	50 Hz			1.94	3.2	4.2	5.4	8.2	11.1	
		60 Hz			-	3.8	5.0	6.8	9.8	13.0	
	Lubricating oil capacity (L)				2.4	7.2	8.6	8.6	9.4	10.5	
	Coolant capacity (L)				3.0	2.0	2.7	2.7	4.2	6.5	
	Fuel tank capacity (L)	sound proof			40	55			115	94	
		open skid			-	100	85			110	
	Starting motor (v-kW)				12 - 0.9	12 - 1.2	12 - 1.4		12 - 2.3	12 - 2.5	
	Charging generator (V-A)				12 - 15	12 - 40					
	Battery capacity (V-Ah)				12 - 35 x 1	12 - 65 x 1					
	Starting system				Electric Starting Motor						
	Cooling system				Radiator with fan						
	Lubricating system				Forced lubrication with trochoid pump						
	Diesel generator Dimension (Soundproof) (approx)	L	mm	1400	1655	1900	1900	2100	2100		
		W	mm	700	800	800	800	860	860		
		H	mm	830	1100	1100	1100	1150	1150		
	Approx dry weight			kg	400	703	810	817	914	1062	
	Sound level dBA from 1 meter / 7 meter			dBa	73 / 63	73 / 63	73 / 63	71 / 61	76 / 66	78 / 68	
	Diesel generator Dimension (open type) (approx)	L	mm	-	1450	1605	1580	1780	1980		
W		mm	-	600	600	600	600	700			
H		mm	-	1250	1250	1250	1250	1250			
Approx dry weight			kg	-	621	700	708	778	945		

Note :

Prime output rating :

Supplies electric power continuously at variable load

No limitation to the annual hours of operation and can supply 10% overload power for 1 hour in 12 hours

Conforms with SAE J816B continuous, Din 6270, BS 5514 or 649 one hours &

ISO 3046 / 1 continuous power

Standby output rating :

Supplies electricity during normal utility power failure at variable load

No overload is permitted on this rating

Conforms with SAE J816B intermittent, DIN 6270, BS 5514 or 649 one hours &

ISO 3046 / 1 fuel stop power

Engine output represent at ISO 3046, standard conditions :

Air temperature

: 25C

Relative

: 30%

Barometric pressure

: 750mmHg

Scope Of Supply

Description		Scope of Supply	
		Standard	Optional
Basic Engine		○	
Combustion Air System		○	
Electrical Starting System		○	
Fuel system		○	
Lube Oil system		○	
Cooling equipment	Set mounted radiator	○	
	Remote radiator complete with fan & motor		☆
Speed Governor	Electric governor		☆
	Mechanical governor	○	
Electrical Control & Monitoring System	Keystart	○	
	Autostart		☆
	AMF		☆
	ATS		☆
Alternator		○	
Base frame		○	
Exhaust System	Industrial [15db(A)]	○	
	Residential [25db(A)]		☆
	Super critical [35db(A)]		☆
Power Transmission		○	
Engine Tools			☆
Anti-Condensation heater for generator			☆
Aquipment for parallel operation			☆
Automatic electric pre-heating device			☆
Standard documentation		○	

No	Description
1	Voltmeter 0 - 500V (EAC0001)
2	Frequency Meter 45 - 65Hz (EAC0002)
3	Ammeter 0 - 150
4	Deep Sea Keystart Control Unit (EAC0009)
5	Voltmeter Selector Switch (EAC0005)
6	Hour Run Meter (EAC0346)
7	Ammeter Selector Switch (EAC0003)
8	Temperature Gauge (EAC0006)
9	DC Voltmeter (EAC0007)
10	Lube Oil Pressure Gauge (EAC0008)
11	Buzzer (EAC0011)



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