



YANMAR

**YN12.3**

Powered by:

**Yanmar 3TNV 88 GGE**

12.3 kVA at 50 Hz

Directive 97/68/EC (Stage II) 

Generating Set Performance		50 Hz	
SERVICE		Continuous Service	Intermittent Service
<b>Rated Output</b>	kVA	<b>12.3</b>	<b>13.3</b>
Active Power Output *	kW	9.8	10.7
Rated Speed	rpm	1500	
Standard Voltage	V	400 / 230	
Available Voltage	V	230 / 132	

Performance data refers to Standard Reference Conditions of ISO 8528 : + 25 °C , 100 m ALT, relative humidity 30 %

During running-in period the output increases by approx. 5 % which is taken into consideration at delivery.

\* Considering  $\cos \phi = 0$ ,

Prime Mover Performance		1500 rpm	
SERVICE		Continuous Service	Intermittent Service
Rated Output	kW (CV)	12.2 (16.6)	13.2 (17.9)
Manufacturer		YANMAR	
Engine Model		3TNV 88 GGE	
4-Stroke Diesel Engine - Injection type		DIRECT	
Aspiration Type		NATURAL	
Number and Arrangement of Cylinders		3 - L	
Bore x Stroke	mm	88 x 90	
Total Displacement	L	1,642	
Cooling System		WATER	
Lube Oil Specifications		API (CF, CF-4, CI-4); ACEA (E-3, E-4, E-5)	
Fuel Consumption (at 100% load)	L/hr	3.59	
Oil Consumption (at full load)		-	
Compression Ratio		19:1	
Lube Oil Maximum Capacity	L	6.7	
Lube Oil Minimum Capacity	L	2.8	
Speed Governor	Type	Mechanical	
Air Filter	Type	Dry Type	

PRIME POWER (P.R.P.): The prime power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions.

A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND BY POWER: Is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power.

No kind of overload is permissible for this use.

Synchronous Generator *		
Poles	N°	4
Winding Connections (standard)		Star -series
Frame Mounting		SAE 4 7 1/2"
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Phases		3 + N
Voltage Regulator		A.V.R. (Electronic)
Steady State Voltage		within $\pm 1.5\%$ from no load to full loading with $\cos \phi = 0.8 \div 1$

\*Alternators used by by Gentec gensets meet the requirements of following Standard: IEC 34-1; CEI 2-3; VDE 0530; BS 4999-5000; NF 51-100,11



Generating Set Installation Data		1500 rpm
<b>EXHAUST SYSTEM</b>		
Max Exhaust Temperature at Full Load	° C	450
	° F	842
Exhaust Gas Flow	Kg/h	3.06
Heat Rejected to Exhaust	Kcal/Kwh	-
Maximum Allowed Back Pressure	mm / H2O	199.81
<b>AIR REQUIREMENT</b>		
Air Requirement for Combustion (at 100% load / rated speed)	m³/min	1.33
	ft³/min	46.96
<b>ELECTRIC STARTING SYSTEM</b>		
Starting Motor Output	kW	1.2
	CV	1.63
Minimum Recommended Battery Capacity	Ah	66
Auxiliary Voltage	Vcc	12
<b>LIQUID CAPACITY</b>		
Lube Oil System including Sump, Filters, etc	L	6.70
<b>FUEL TANK CAPACITY</b>		
Open Skid Genset	L	65
Soundproofed	L	23
<b>SOUND EMISSION LEVEL (Soundproofed Gensets)</b>		
1 Metre (Free Field)	dB (A)	68
7 Metres (Free Field)	dB (A)	59

Generating Set Transport Data		
<b>WEIGHT AND DIMENSIONS OPEN SKID GENSET</b>		
Length	m - ft	1.32 - 4.33
Width	m - ft	0.60 - 1.97
Height	m - ft	1.13 - 3.70
Shipping Volume Seaworthy (Standard Supplier)	m³ - ft³	0.90 - 31.56
Dry Weight (with standard accessories)	kg - lb	362 - 796 *
<b>WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET</b>		
Length	m - ft	1.47 - 4.83
Width	m - ft	0.75 - 2.46
Height	m - ft	1.11 - 3.64
Shipping volume seaworthy (Standard supplier)	m - ft	1.22 - 43.25
Dry Weight (with standard accessories)	kg - lb	666 - 1,465.2 *

\* Weights and dimensions based on standard product configuration (this information could change for optional configurations)

Local distributor



Pub. 1 - HYW-13T5 Rev. 1-10/2007 - Gentec Energy reserves the right to modify any characteristic without prior notice. Weights and dimensions based on products standards and sec / Illustration may include optional equipment.