

YANMAR

**YN20**

Powered by:

**4TNV 84T GGE**

20 kVA at 50 Hz

Directive 97/68/EC (Stage II) 



Generating Set Performance		50 Hz	
SERVICE		Continuous Service	Intermittent Service
Rated Output	kVA	<b>20.0</b>	<b>22.0</b>
Active Power Output *	kW	16.0	18.0
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)	19.1 (25.9)	21.0 (28.5)
Manufacturer		YANMAR	
Engine Model		4TNV 84 T GGE	
4-Stroke Diesel Engine - Injection Type		DIRECT	
Aspiration Type		TURBOCHARGED	
Number and Arrangement of Cylinders		4 - L	
Bore x Stroke	mm	84 x 90	
Total Displacement	L	1,995	
Cooling System			
Lube Oil Specifications		API (CF, CF-4, CI-4) ACEA (E-3,E-4,E-5)	
Fuel Consumption (at 100% load)	L/hr	5.64	
Oil Consumption (at full load)		-	
Compression Ratio		18.9	
Lube Oil Maximum Capacity	L	7.4	
Lube Oil Minimum Capacity	L	3.4	
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 <sup>1/2</sup> "
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Phases		3 + N
Voltage Regulator		A.V.R. (electronic)
Steady State Voltage		within ± 1.5% from no load to full loading with cosφ=0.8÷1

\*Alternators used 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	m³/min	5.23
Heat Rejected to Exhaust	Kcal/Kwh	-
Maximum Allowed Back Pressure	mm / H2O	390.32
<b>AIR REQUIREMENT</b>		
Air Requirement for Combustion at 100% load / rated speed	m³/min	2.33
	ft³/min	82.28
<b>ELECTRIC STARTING SYSTEM</b>		
Starting Motor Output	kW	1.4
	CV	1.90
Minimum Recommended Battery Capacity	Ah	92
Auxiliary Voltage	Vcc	12
<b>LIQUID CAPACITY</b>		
Lube Oil System including Sump, Filters, etc	L	7.40
<b>FUEL TANK CAPACITY</b>		
Open Skid Genset	L	72
Soundproofed	L	38
<b>SOUND EMISSION LEVEL (Soundproofed gensets)</b>		
1 Metre (Free Field)	dB (A)	66
7 Metres (Free Field)	dB (A)	57

Generating Set transport data		
<b>WEIGHT AND DIMENSIONS OPEN SKID GENSET</b>		
Length	m - ft	1.46 - 4.79
Width	m - ft	0.604 - 1.98
Height	m - ft	1.28 - 4.19
Shipping Volume Seaworthy (Standard Supplier)	m³ - ft³	1.12 - 39.74
Dry Weight (with standard accessories)	kg - lb	416 - 915 *
<b>WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET</b>		
Length	m - ft	1.92 - 6.29
Width	m - ft	0.90 - 2.95
Height	m - ft	1.23 - 4.03
Shipping Volume Seaworthy (Standard Supplier)	m³ - ft³	2.12 - 74.77
Dry Weight (with standard accessories)	kg - lb	720 - 1,584 *

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

Local distributor



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