



YANMAR

YN7.8

Powered by:

3TNV 76 GGE

7.8 kVA at 50 Hz

Directive 97/68/EC (Stage II) 

Generating Set Performance		50 Hz	
SERVICE		Continuous Service	Intermittent Service
Rated Output	kVA	7.8	8.6
Active Power Output *	kW	6.2	6.9
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)	8.2 (11.1)	9.0 (12.2)
Manufacturer		YANMAR	
Engine Model		3TNV 76 GGE	
4-Stroke Diesel Engine - Injection Type		DIRECT	
Aspiration Type		NATURAL	
Number and Arrangement of Cylinders		3 - L	
Bore x Stroke	mm	76 x 82	
Total Displacement	L	1.116	
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/h	2.62	
Oil Consumption (at full load)		-	
Compression Ratio		23.5	
Lube Oil Maximum Capacity	L	3.5	
Lube Oil Minimum Capacity	L	1.6	
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 5 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 $\cos \phi = 0.8 \pm 1$

*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
EXHAUST SYSTEM		
Max Exhaust Temperature at Full Load	° C	400
	° F	752
Exhaust Gas Flow	Kg/h	2.10
Heat Rejected to Exhaust	Kcal/Kwh	-
Maximum Allowed Back Pressure	mm / H2O	292.93
AIR REQUIREMENT		
Air Requirement for Combustion at 100% load / rated speed	m ³ /min	0.90
	ft ³ /min	31.78
ELECTRIC STARTING SYSTEM		
Starting Motor Output	kW	1.1 ± 0.3
	CV	1.49 ± 0.40
Minimum Recommended Battery Capacity	Ah	66
Auxiliary Voltage	Vcc.	12
LIQUID CAPACITY		
Lube Oil System including Sump, Filters, etc	L	3.50
FUEL TANK CAPACITY		
Open Skid Genset	L	65
Soundproofed	L	23
SOUND EMISSION LEVEL (Soundproofed gensets)		
1 Metre (Free Field)	dB (A)	73
7 Metres (Free Field)	dB (A)	64

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	1.32 - 4.33
Width	m - ft	0.60 -1.96
Height	m - ft	1.13 - 3.70
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	0.90 - 31.40
Dry weight (with standard accessories)	kg - lb	307 - 675.4
WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET		
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 ³ - ft ³	1.22 - 43.24
Dry weight (with standard accessories)	kg - lb	611 - 1,344.2

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

Local distributor



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