



Directive 97/68/EC (Stage II) 

Generating Set Performance		50 Hz	
SERVICE		Continuous Service	Intermittent Service
Rated Output	kVA	16.0	17.0
Active Power Output *	kW	12.8	13.6
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			
SERVICE		Continuous Service	Intermittent Service
Rated Output	kW (CV)	16.4 (22.3)	17.6 (23.9)
Manufacturer		YANMAR	
Engine Model		4TNV 88 GGE	
4-Stroke Diesel Engine - Injection Type		DIRECT	
Aspiration Type		NATURAL	
Number and Arrangement of Cylinders		4 - L	
Bore x Stroke	mm	88 x 90	
Total Displacement	L	2.189	
Cooling System		WATER	
Lube Oil Specifications		API (CF, CF4, CI4) ACEA (E-3, E-4, E-5)	
Fuel Consumption (at 100% load)	L/hr	4.78	
Oil Consumption (at full load)		-	
Compression Ratio		19.1	
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 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 ± 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
EXHAUST SYSTEM		
Max Exhaust Temperature at Full Load	° C	470
	° F	878
Exhaust Gas Flow	m ³ /min	4.22
Heat Rejected to Exhaust	Kcal/Kwh	-
Maximum Allowed Back Pressure	mm / H2O	284.42
AIR REQUIREMENT		
Air Requirement for Combustion at 100% load / rated speed	m ³ /min	1.77
	ft ³ /min	62.50
ELECTRIC STARTING SYSTEM		
Starting Motor Output	kW	1.4
	CV	1.90
Minimum Recommended Battery Capacity	Ah	92
Auxiliary Voltage	Vcc	12
LIQUID CAPACITY		
Lube Oil System including Sump, Filters, etc	L	7.40
FUEL TANK CAPACITY		
Open Skid Genset	L	72
Soundproofed	L	38
SOUND EMISSION LEVEL (Soundproofed gensets)		
1 Metre (Free Field)	dB (A)	69
7 Metres (Free Field)	dB (A)	60

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
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)	m ³ - ft ³	1.12 - 39.74
Dry Weight (with standard accessories)	kg - lb	397 - 873 *
WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET		
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)	m - ft	2.12 - 74.77
Dry Weight (with standard accessories)	kg - lb	701 - 1,542 *

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

Local distributor



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