



# HVW-640 T5

Powered by:

**VOLVO TWD 1643GE**

637 kVA at 50 Hz

Directiv. 97/68/EC (Stage II) 

Generating Set Performance		50 Hz	
SERVICE		Continuous Service	Intermittent Service
Rated output	kVA	637	705
Active power output *	kW	509	564
Rated speed	r.p.m.	1.500	
Standard Voltage	V	400	
Voltage available	V	400 / 230 - 230 / 132 - 230	

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.

Power reduction acc. to DIN ISO 3046. Standard values: Above 100 m ALT approx. 1 % per 100 m. Above 25 °C (77 °F) approx. 4 % per 10 °C (50 °F).

\* Considering cos phi= 0,8

Prime Mover Performance		1.500 r.p.m.	
SERVICE		Continuous Service	Intermittent Service
Rated output	kW	536	596
Manufacturer		VOLVO PENTA	
Engine model		TWD 1643GE	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED - INTERCOOLER	
Cylinders, number and arrangement		6 - L	
Bore x stroke	mm	144 x 165	
Total displacement	L	16,12	
Cooling system		WATER	
Lube oil specifications		ACEA E2, API CD, CF, CF-4	
Compression ratio		16,5 : 1	
Specific fuel consumption	L/h	124,03	
Specific oil consumption (at full load)	%	0,08	
Lube oil maximum capacity	L	42	
Lube oil minimum capacity	L	32	
Speed governor	Type	ELECTRONIC	
Air filter	Type	DRY light duty	

(ICFN) : ISO-STANDARD POWER (10% overload permissible) and ISO-STANDARD FUEL STOP POWER (no overload permissible) according to DIN ISO 3046.

For constant speed and constant load.

(IFN) : ISO BRAKE FUEL STOP NET POWER for intermittent load acc. to DIN ISO 3046.

Performance data refers to Standard Reference Conditions of DIN ISO 3046: + 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.

Power reduction acc. to DIN ISO 3046. Standard values: Above 100 m ALT approx. 1 % per 100 m. Above 25 °C (77 °F) approx. 4 % per 10 °C (50 °F).

Synchronous Generator *		
Pôles	N°	4
Winding connections (standard)		Star - serie
Frame mounting		SAE1 / 14"
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Exciter system		3 + N
Voltage regulator		A.V.R. (electronic)
Steady voltage precision		within $\pm 1,5\%$ from no load to full loading with $\cos\phi=0,8+1$

\*Alternator used by HIMOINSA 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		1.500 r.p.m.
<b>EXHAUST SYSTEM</b>		
Max. exhaust temperature at full load	° C	450
	° F	842
Exhaust gas flow	kg/h	2560,32
Heat rejected to exhaust	kcal/kWh	599,104
Maximum allowed back pressure	mm/H2O	1019,72
<b>AIR REQUIREMENT</b>		
Air requirement for combustion at 100% load / rated speed	m <sup>3</sup> /h	2619
	Kg / h	2175,4
<b>ELECTRIC STARTING SYSTEM</b>		
Starting motor output	kW	7,0
	CV	9,52
Minimum recommended battery capacity	Ah	N.A.
Auxiliary voltage	Vcc.	24
<b>LIQUID CAPACITY</b>		
Lube oil system including sump, filters, etc.	L	48
<b>FUEL TANK CAPACITY</b>		
Open Skid Genset	L	999
Soundproofed	L	950

Generating Set transport data		
<b>WEIGHT AND DIMENSIONS OPEN SKID GENSET</b>		
Length	m - ft	4,40 - 14,42 (a)
Width	m - ft	1,56 - 5,11
Height	m - ft	2,25 - 7,38
Shipping volume seaworthy (Standard supplier)	m <sup>3</sup> - ft <sup>3</sup>	15,45 - 543,80
Dry weight (with standard accessories)	kg - lb	4.435 - 9.757

<b>WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET</b>		
Length	m - ft	5,00 - 16,4
Width	m - ft	2,00 - 6,56
Height	m - ft	2,31 - 7,57
Shipping volume seaworthy (Standard supplier)	m <sup>3</sup> - ft <sup>3</sup>	23,1 - 814,41
Dry weight (with standard accessories)	kg - lb	5.575 - 12.265

(a) Chassis type K10. The leght datum refers to model with an external control panel (optional). Please consult for other configurations.

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**HIMOINSA company with quality certification ISO 9001**  
HIMOINSA gensets are compliant with EC mark which includes the following directives:

- ISO 13857:2008 Machinery safety.
- 2006/95/EC Low voltage.
- 89/336/EEC Electromagnetic compatibility.
- 200/14/EC Sound Powr leve. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)

Local distributor



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