



**HPW**  
PERKINS

# HPW-100 T5

Powered by:

**PERKINS 1.104C 44TAG2**

100 kVA at 50 Hz

Directive 97/68/EC (Stage II)



Generating Set Performance		50 Hz	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kVA	100	110
Active power output *	kW	80	88
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		P.R.P. (1)	Standby (2)
Rated output	kW	93,6	103
Manufacturer		Perkins	
Engine model		1104C-44TAG2	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED, AIR TO AIR CHARGE COOLER	
Cylinders, number and arrangement		4 - L	
Bore x stroke	mm	105 x 127	
Total displacement	L	4,4	
Cooling system		WATER	
Lube oil specifications		SAE 15 W 40	
Compression ratio		18,3 : 1	
Specific fuel consumption (P.R.P)	L / h	26,9	
Specific oil consumption (at full load)	%	0,15	
Lube oil maximum capacity	L	8	
Total coolant capacity	L	12,6	
Speed governor	Type	ELECTRONIC	
Air filter	Type	DRY	

(1) Prime Power (P.R.P.) - ISO 8528: prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) Max Stand-by power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% loads 25 h per year - 90% loads 200 h per year No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Synchronous Generator *		
Poles	N°	4
Winding connections (standard)		Star - serie
Frame mounting		SAE 3 - 11" <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 voltage precision		within ± 1,5% from no load to full loading with cosφ=0,8+1

\*Alternator used by HIMOINSA Gensets meet the requirements of following Standard: BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359.



Generating Set Installation Data		1.500 r.p.m.
<b>EXHAUST SYSTEM</b>		
Max. exhaust temperature at full load	° C	543
	° F	1.009,4
Exhaust gas flow	kg/h	410,76
Heat rejected to exhaust	kcal/kWh	659
Maximum allowed back pressure	mm H2O	1.800
<b>AIR REQUIREMENT</b>		
Air requirement for combustion at 100% load / rated speed	m³/h	376,2
	ft³/h	312,48
<b>ELECTRIC STARTING SYSTEM</b>		
Starting motor output	kW	3
	CV	4
Minimum recommended battery capacity	Ah	92
Auxiliary voltage	Vcc.	12V
<b>LIQUID CAPACITY</b>		
Lube oil system including sump, filters, etc.	L	8
<b>FUEL TANK CAPACITY</b>		
Open Skid Genset	L	145
Soundproofed	L	175

Generating Set transport data		
<b>WEIGHT AND DIMENSIONS OPEN SKID GENSET</b>		
Length	m - ft	2,15 - 7,05
Width	m - ft	0,78 - 2,56
Height	m - ft	1,43 - 4,70
Shipping volume seaworthy (Standard supplier)	m³ - ft³	2,40 - 84,82
Dry weight (with standard accessories)	kg - lb	1.160 - 2.552*

<b>WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET</b>		
Length	m - ft	2,75 - 9,02
Width	m - ft	1,10 - 3,61
Height	m - ft	1,50 - 4,92
Shipping volume seaworthy (Standard supplier)	m³ - ft³	4,53 - 160,20
Dry weight (with standard accessories)	kg - lb	1.710 - 3.762*

\* The weights are approximate



**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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**HIMOINSA**<sup>®</sup>  
GENERATING SET