



**HPW**  
PERKINS

# HPW-400 T5

Powered by:  
**PERKINS 2306C - E14TAG3**

400 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	400	440
Active power output *	kW	320	352
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	353	396
Manufacturer		Perkins	
Engine model		2306C - E14TAG3	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED	
Cylinders, number and arrangement		6 - L	
Bore x stroke	mm	137 x 165	
Total displacement	L	14,6	
Cooling system		WATER	
Lube oil specifications		SAE 15 W 40	
Compression ratio		15,9 : 1	
Specific fuel consumption (P.R.P)	L / h	86	
Specific oil consumption (at full load)	%	<0,1	
Lube oil maximum capacity	L	60	
Total coolant capacity	L	47	
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 1/2 - 14" <sup>112</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 $\pm 1\%$ from no load to full loading with $\cos \phi = 0,8 + 1$

\*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	474
	° F	885,2
Exhaust gas flow	kg/h	2.192,4
Heat rejected to exhaust	kcal/kWh	714,8
Maximum allowed back pressure	mm H <sub>2</sub> O	676
<b>AIR REQUIREMENT</b>		
Air requirement for combustion at 100% load / rated speed	m <sup>3</sup> /h	2.100
	ft <sup>3</sup> /h	1.744,32
<b>ELECTRIC STARTING SYSTEM</b>		
Starting motor output	kW	7,65
	CV	10,39
Minimum recommended battery capacity	Ah	2 x 128
Auxiliary voltage	Vcc.	24V
<b>LIQUID CAPACITY</b>		
Lube oil system including sump, filters, etc.	L	68
<b>FUEL TANK CAPACITY</b>		
Open Skid Genset	L	590
Soundproofed	L	590

Generating Set transport data		
<b>WEIGHT AND DIMENSIONS OPEN SKID GENSET</b>		
Length	m - ft	3,81 - 12,49 (a)
Width	m - ft	1,39 - 4,55
Height	m - ft	1,97 - 6,46
Shipping volume seaworthy (Standard supplier)	m <sup>3</sup> - ft <sup>3</sup>	10,43 - 367,11
Dry weight (with standard accessories)	kg - lb	3.625 - 7.975

<b>WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET</b>		
Length	m - ft	4,1 - 13,45
Width	m - ft	1,6 - 5,24
Height	m - ft	2,2 - 7,24
Shipping volume seaworthy (Standard supplier)	m <sup>3</sup> - ft <sup>3</sup>	14,49 - 510,26
Dry weight (with standard accessories)	kg - lb	4.940 - 10.868

(a) Chassis type K8. The legth 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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