

HPW-50 T5

Powered by:

PERKINS 1.103C 33TG3

45 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	45	50
Active power output *	kW	36	40
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	41,9	46,5
Manufacturer		Perkins	
Engine model		1103C-33TG3	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED	
Cylinders, number and arrangement		3 - L	
Bore x stroke	mm	105 x 127	
Total displacement	L	3,3	
Cooling system		WATER	
Lube oil specifications		SAE 15 W 40	
Compression ratio		18,23 : 1	
Specific fuel consumption (P.R.P)	L. / h	10,50	
Specific oil consumption (at full load)	%	0,15	
Lube oil maximum capacity	L	7,8	
Total coolant capacity	L	10,2	
Speed governor	Type	mechanical	
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" ^{1/2}
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Exciter system		Self-regulating Brushless
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.
EXHAUST SYSTEM		
Max. exhaust temperature at full load	° C	660
	° F	1.220
Exhaust gas flow	kg/h	194,04
Heat rejected to exhaust	kcal/kWh	693,9
Maximum allowed back pressure	mm H ₂ O	1.500
AIR REQUIREMENT		
Air requirement for combustion at 100% load / rated speed	m ³ /h	186
	ft ³ /h	154,49
ELECTRIC STARTING SYSTEM		
Starting motor output	kW	3
	CV	4
Minimum recommended battery capacity	Ah	60
Auxiliary voltage	Vcc.	12V
LIQUID CAPACITY		
Lube oil system including sump, filters, etc.	L	8,3
FUEL TANK CAPACITY		
Open Skid Genset	L	120
Soundproofed	L	65

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	1,85 - 6,07
Width	m - ft	0,78 - 2,55
Height	m - ft	1,42 - 4,67
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	2,05 - 72,28
Dry weight (with standard accessories)	kg - lb	890 - 1.958

WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET		
Length	m - ft	2,25 - 7,38
Width	m - ft	1,05 - 3,44
Height	m - ft	1,45 - 4,75
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	3,30 - 120,58
Dry weight (with standard accessories)	kg - lb	1.315 - 2.893

**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**
GENERATING SET