



HPW
PERKINS

HPW-180 T5

Powered by:

PERKINS 1106C - E66TAG4

230 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	180	200
Active power output *	kW	144	160
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	156,4	173,4
Manufacturer		Perkins	
Engine model		1106C - E66TAG4	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED, AIR TO AIR CHARGE COOLER	
Cylinders, number and arrangement		6 - L	
Bore x stroke	mm	105 x 127	
Total displacement	L	6,6	
Cooling system		WATER	
Lube oil specifications		API-CH4/CI4	
Compression ratio		16,2 : 1	
Specific fuel consumption (P.R.P)	L / h	40,20	
Specific oil consumption (at full load)	%	<0,1	
Lube oil maximum capacity	L	15,5	
Total coolant capacity	L	21	
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 2
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.
EXHAUST SYSTEM		
Max. exhaust temperature at full load	° C	499
	° F	930,2
Exhaust gas flow	kg / h	781,2
Heat rejected to exhaust	kcal/kWh	673,3
Maximum allowed back pressure	mm H2O	1.000
AIR REQUIREMENT		
Air requirement for combustion at 100% load / rated speed	m³/h	702
ELECTRIC STARTING SYSTEM		
Starting motor output	kW	4
	CV	5,44
Minimum recommended battery capacity	Ah	140
Auxiliary voltage	Vcc.	24V
LIQUID CAPACITY		
Lube oil system including sump, filters, etc.	L	16,5
FUEL TANK CAPACITY		
Open Skid Genset	L	250
Soundproofed	L	245

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	2.9 - 9.51
Width	m - ft	0.9 - 2,95
Height	m - ft	1.6 - 5,25
Shipping volume seaworthy (Standard supplier)	m³ - ft³	4.176 - 147,28
Dry weight (with standard accessories)	kg - lb	1.730 - 3.806

WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET		
Length	m - ft	3,3 - 10,82
Width	m - ft	1,2 - 3,93
Height	m - ft	1,80 - 5,90
Shipping volume seaworthy (Standard supplier)	m³ - ft³	7,12 - 250,88
Dry weight (with standard accessories)	kg - lb	2.470 - 5.434

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