



HPW
PERKINS

HPW-1650 T5

Powered by:

4012-46TAG3A

1.650 kVA at 50 Hz



Generating Set Performance		50 Hz	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kVA	1.650	1.770
Active power output *	kW	1.320	1.416
Rated speed	r.p.m.	1.500	
Standard Voltage	V	400 / 230	
Voltage available	V	380 / 220 - 415 / 240	

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	1.436	1.579
Manufacturer		PERKINS	
Engine model		4012-46TAG3A	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED AND AIR TO AIR COOLED	
Cylinders, number and arrangement		12-V	
Bore x stroke	mm	160 x 190	
Total displacement	L	45,842	
Cooling system		WATER	
Lube oil specifications		API CG4 -SAE 15 W 40	
Compression ratio		13 : 01	
Specific fuel consumption (P.R.P)	l/h	370	
Specific oil consumption (at full load)	%	0,25	
Lube oil maximum capacity	L	159	
Total coolant capacity	L	207	
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	Nº	4
Winding connections (standard)		Star - serie
Frame mounting		SAE 0 - 18"
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Exciter system		Self-regulating Brushless
Voltage regulator		A.V.R. + PMG (Electronic)
Steady voltage precision		within $\pm 1,5\%$ from no load to full loading with $\cos\phi=0,8\pm 1$

*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	480
	° F	896
Exhaust gas flow	kg/h	8.820
Maximum allowed back pressure	mmH ₂ O	50
AIR REQUIREMENT		
Air requirement for combustion at 100% load / rated speed	m ³ /h	7.500
	ft ³ /h	264.855
ELECTRIC STARTING SYSTEM		
Starting motor output	kW	16,4
	CV	22,3
Minimum recommended battery capacity	Ah	4 x 286
Auxiliary voltage	Vcc.	24V
LIQUID CAPACITY		
Lube oil system including sump, filters, etc.	L	177
FUEL TANK CAPACITY		
Open Skid Genset	L	999
Soundproofed	L	999

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	-
Width	m - ft	-
Height	m - ft	-
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	-
Dry weight (with standard accessories)	kg - lb	-

WEIGHT AND DIMENSIONS SOUNDPROOFED CONTAINER 40"		
Length	m - ft	12,192 - 39,99
Width	m - ft	2,438 - 8,00
Height	m - ft	2,591 - 8,50
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	77,015 - 2.719,32
Dry weight (with standard accessories)	kg - lb	-
Sound level at 7m	dB(A)	-

* Weights and dimensions approximate. To consult in factory.

Local distributor



Factory: Ctra. Murcia - San Javier, Km. 23,6 30730
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