



**HPW**  
PERKINS

# HPW-1850 T5

Powered by:

**PERKINS 4016 TAG1A**

1.848 kVA at 50 Hz



Generating Set Performance		50 Hz	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kVA	<b>1.848</b>	<b>2.028</b>
Active power output *	kW	1.479	1.622
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	1.537	1.690
Manufacturer		PERKINS	
Engine model		4016 TAG 1A	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED AND AIR TO AIR COOLED	
Cylinders, number and arrangement		16-V	
Bore x stroke	mm	160 x 190	
Total displacement	L	61,23	
Cooling system		WATER	
Lube oil specifications		API CG4 -SAE 15 W 40	
Compression ratio		13,6 : 1	
Specific fuel consumption (P.R.P)	l/h	389	
Specific oil consumption (at full load)	%	0,2	
Lube oil maximum capacity	L	214	
Total coolant capacity	L	316	
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		<b>A.V.R. + PMG (Electronic)</b>
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.
<b>EXHAUST SYSTEM</b>		
Max. exhaust temperature at full load	° C	439
	° F	822,2
Exhaust gas flow	kg/h	8.643,6
Maximum allowed back pressure	mmH <sub>2</sub> O	949
Exhaust outlet diameter	mm	2 x 254
<b>AIR REQUIREMENT</b>		
Air requirement for combustion at 100% load / rated speed	m <sup>3</sup> /h	7.920
	ft <sup>3</sup> /h	279.686,88
<b>ELECTRIC STARTING SYSTEM</b>		
Starting motor output	kW	16,4
	CV	22,3
Minimum recommended battery capacity	Ah	4 x 286
Auxiliary voltage	Vcc.	24V
<b>LIQUID CAPACITY</b>		
Lube oil system including sump, filters, etc.	L	216
<b>FUEL TANK CAPACITY</b>		
Open Skid Genset	L	999
Soundproofed	L	999

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

<b>WEIGHT AND DIMENSIONS SOUNDPROOFED CONTAINER 40"</b>		
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 <sup>3</sup> - ft <sup>3</sup>	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



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