



# Helios

## HPW-1505

Powered by:  
**PERKINS 4012-TAG2**

1.506 kVA at 60 Hz



Generating Set Performance		60 Hz	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kVA	1.506	1.656
Active power output *	kW	1.204	1.325
Rated speed	r.p.m.	1.800	
Standard Voltage	V	480 / 277	
Voltage available	V	460 / 265 - 440 / 254 - 416 / 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		1.800 r.p.m.	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kW	1.260	1.386
Manufacturer		PERKINS	
Engine model		4012 -TAG 2	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED AND AFTERCOOLED	
Cylinders, number and arrangement		12 - V	
Bore x stroke	mm	160 x 190	
Total displacement	L	45,84	
Cooling system		WATER	
Lube oil specifications		SAE 15 W 40	
Compression ratio		13,6 : 1	
Specific fuel consumption	L / h	314	
Specific oil consumption (at full load)	%	0,25	
Lube oil maximum capacity	L	159	
Total coolant capacity	L	235	
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 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.



HMW 1505 - 1.506 kVA at 60 Hz



Generating Set Installation Data		1.800 r.p.m.
<b>EXHAUST SYSTEM</b>		
Max. exhaust temperature at full load	° C	480
	° F	896
Exhaust gas flow	m <sup>3</sup> /min	283
Maximum allowed back pressure	mmH <sub>2</sub> O	745
Recommended exhaust pipe size for L= 5 m	mm	2 x 254
<b>AIR REQUIREMENT</b>		
Air requirement for combustion at 100% load / rated speed	m <sup>3</sup> /min	103
	ft <sup>3</sup> /min	3.636
<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	159
<b>FUEL TANK CAPACITY</b>		
Open Skid Genset	L	999
Soundproofed	L	999

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	5,3 - 17,38
Width	m - ft	2,25 - 7,38
Height	m - ft	3,3 - 10,82
Shipping volume seaworthy (Standard supplier)	m <sup>3</sup> - ft <sup>3</sup>	39,35 - 1.387,8
Dry weight (with standard accessories)	kg - lb	10.400 - 22.880

WEIGHT AND DIMENSIONS SOUNDPROOFED CONTAINER 30"		
Length	m - ft	9,12 - 29,88
Width	m - ft	2,44 - 7,99
Height	m - ft	2,89 - 9,47
Shipping volume seaworthy (Standard supplier)	m <sup>3</sup> - ft <sup>3</sup>	64,31 - 2.261
Dry weight (with standard accessories)	kg - lb	15.780 - 34.716
Sound level at 7m	dB(A)	N/A

Pub. 1016 HMW-1505 05/04 - Himoinsa reserves the right to modify any characteristic without prior notice. Weights and dimensions based on products standards and sec. / Illustration may include optional equipment.

Local distributor



Factory: Ctra. Murcia - San Javier, Km. 23,6 30730  
 SAN JAVIER (Murcia) España  
 Tel.+34 968 19 11 28 Fax +34 968 19 12 17 Export Fax +34968 19 04 20  
 info@himoinsa.com www.himoinsa.com



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