



Powered by:
PERKINS 1.306 - E87TAG3

208 kVA at 50 Hz

Generating Set Performance		50 Hz	
SERVICE		P.R.P. (1)	Standby (2)
Rated output	kVA	208	229
Active power output *	kW	166	183
Rated speed	r.p.m.	1.500	
Standard Voltage	V	400	
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	180	199
Manufacturer		Perkins	
Engine model		1.306 - E87TAG3	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBOCHARGED AND AFTERCOOLED	
Cylinders, number and arrangement		6 - L	
Bore x stroke	mm	116 x 135,9	
Total displacement	L	8,7	
Cooling system		WATER	
Lube oil specifications		SAE 15 W 40	
Compression ratio	L / h	45,2	
Specific fuel consumption (P.R.P)	%	<0,1	
Specific oil consumption (at full load)		16,9 : 1	
Lube oil maximum capacity	L	26,4	
Total coolant capacity	L	37,2	
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 2 - 11" ^{1/2}
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Phases		3 + N
Voltage regulator		A.V.R (Electronic)
Steady voltage precision		within $\pm 1,5\%$ from no load to full loading with $\cos \phi = 0,8+1$

*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	524
	° F	975
Exhaust gas flow	m ³ /min	36,5
Heat rejected to exhaust	kcal/kWh	122
Maximum allowed back pressure	mm H ₂ O	1.090
AIR REQUIREMENT		
Air requirement for combustion at 100% load / rated speed	m ³ /min	13,5
	ft ³ /min	447
ELECTRIC STARTING SYSTEM		
Starting motor output	kW	N.A.
	CV	N.A.
Minimum recommended battery capacity	Ah	140
Auxiliary voltage	Vcc.	24V
LIQUID CAPACITY		
Lube oil system including sump, filters, etc.	L	28,3
FUEL TANK CAPACITY		
Open Skid Genset	L	445
Soundproofed	L	445

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	3,0 - 9,8
Width	m - ft	1,1 - 3,6
Height	m - ft	1,77 - 5,8
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	6,17 - 204,6
Dry weight (with standard accessories)	kg - lb	1.990 - 4.378
WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET		
Length	m - ft	3,8 - 12,46
Width	m - ft	1,4 - 4,59
Height	m - ft	2,10 - 6,90
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	11,19 - 394,62
Dry weight (with standard accessories)	kg - lb	3.230 - 7.106

* The weights are approximate

