



HDW-670 T5

Powered by:

DOOSAN P222FE

657 kVA - 50 Hz

Directiv. 97/68/EC (Stage II) 

Generating Set Performance		50 Hz	
SERVICE		Continuous Service	Intermittent Service
Rated output	kVA	657	705
Active power output *	kW	525	564
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		Continuous Service	Intermittent Service
Rated output	kW	569	612
Manufacturer		DOOSAN	
Engine model		P222FE	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBO CHARGED & INTERCOOLED	
Cylinders, number and arrangement		12 - V	
Bore x stroke	mm	128 x 142	
Total displacement	L	21,92	
Cooling system		WATER	
Lube oil specifications		SAE 15W 40 - API CD/CE	
Compression ratio		14,2 : 1	
Specific fuel consumption	L/h	130 - 99,8 - 68,3 - 38	
Specific oil consumption (at full load)	%	--	
Lube oil maximum capacity	L	40	
Lube oil minimum capacity	L	33	
Speed governor	Type	ELECTRONIC	
Steady state frequency at constant load	Type	<1,5*	
Governor class according to ISO 8528		G2	
Air filter		DRY	

(ICFN) : ISO-STANDARD POWER (10% overload permissible) and ISO-STANDARD FUEL STOP POWER (no overload permissible) according to DIN ISO 3046.

For constant speed and constant load.

(IFN) : ISO BRAKE FUEL STOP NET POWER for intermittent load acc. to DIN ISO 3046.

Performance data refers to Standard Reference Conditions of DIN ISO 3046: + 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).

Synchronous Generator *		
Pôles	N°	4
Winding connections (standard)		Star - serie
Frame mounting		SAE1 / 14"
Insulation	class	H
Enclosure (according to IEC-34-5)		IP 23
Exciter system		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
Maintained short circuit current		3 In

*Alternator used by HIMOINSA Gensets meet the requirements of following Standard: IEC 34-1; CEI 2-3; ; VDE 0530; BS 4999-5000:NF 51-100,11



Generating Set Installation Data		1.500 r.p.m.
EXHAUST SYSTEM		
Max. exhaust temperature at full load	° C	536
	° F	996,8
Exhaust outlet diameter (Open skid - Soundproofed)	mm	81 - 160
Exhaust gas flow	m ³ /m	111,3
Heat rejected to coolant	kcal/kWh	--
Max. permissible restrictions	mmH ² O	600
AIR REQUIREMENT		
Cooling air flow	m ³ /s	0,530
Cooling air flow alternator	m ³ /m	62,1
Total cooling air flow (engine, alternator, combustion)	m ³ /m	291 - 378 (Open skid - Soundproofed)
ELECTRIC STARTING SYSTEM		
Starting motor output	kW	7,00
	CV	9,52
Minimum recommended battery capacity	Ah	200
Auxiliary voltage	Vcc.	24
LIQUID CAPACITY		
Lube oil system including sump, filters, etc.	L	41
Cooling system capacity	L	137,24
Antifreeze recommended percentage	%	68,62
FUEL TANK		
Fuel tank capacity Open Skid Genset	L	999
Autonomy (100%-75%-50%-25%)	h	7,68 - 10,01 - 14,63 - 38,00
Fuel tank capacity Soundproofed	L	950
Autonomy (100%-75%-50%-25%)	h	8,51 - 11,69 - 17,34 - 32,09

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	4,40 - 14,43
Width	m - ft	1,56 - 5,11
Height	m - ft	2,25 - 7,38
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	15,45 - 544,18
Dry weight (with standard accessories)	kg - lb	4.950 - 10.890
WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET		
Length	m - ft	5,00 - 16,4
Width	m - ft	2,00 - 6,56
Height	m - ft	2,31 - 7,57
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	23,1 - 814,41
Dry weight (with standard accessories)	kg - lb	6.900 - 15.180

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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