



HDW-525 T5

Powered by:

DOOSAN P180LE

503 kVA - 50 Hz

Generating Set Performance		50 Hz	
SERVICE		Continuous Service	Intermittent Service
Rated output	kVA	503	564
Active power output *	kW	403	451
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	443	496
Manufacturer		DOOSAN	
Engine model		P180LE	
4 stroke Diesel Engine - Injection type		DIRECT	
Aspiration type		TURBO CHARGED & AFTERCOOLER	
Cylinders, number and arrangement		10 - V	
Bore x stroke	mm	128 x 142	
Total displacement	L	18,27	
Cooling system		WATER	
Lube oil specifications		SAE 15W 40 - API CD/CE	
Compression ratio		15 : 1	
Specific fuel consumption	L/h	111,6 - 81,3 - 54,8 - 29,6	
Specific oil consumption (at full load)	%	--	
Lube oil maximum capacity	L	35	
Lube oil minimum capacity	L	26	
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	580
	° F	1.076
Exhaust outlet diameter (Open skid - Soundproofed)	mm	82 - 160
Exhaust gas flow	m ³ /m	97,9
Heat rejected to coolant	kcal/kWh	--
Max. permissible restrictions	mmH ² O	600
AIR REQUIREMENT		
Cooling air flow	m ³ /s	0,527
Cooling air flow alternator	m ³ /m	62,1
Total cooling air flow (engine, alternator, combustion)	m ³ /m	217 - 355 (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	36
Cooling system capacity	L	129,24
Antifreeze recommended percentage	%	64,62
FUEL TANK		
Fuel tank capacity Open Skid Genset	L	740
Autonomy (100%-75%-50%-25%)	h	6,63 - 9,10 - 13,50 - 25
Fuel tank capacity Soundproofed	L	740
Autonomy (100%-75%-50%-25%)	h	6,63 - 9,10 - 13,50 - 25,00

Generating Set transport data		
WEIGHT AND DIMENSIONS OPEN SKID GENSET		
Length	m - ft	4,10 - 13,45 (a)
Width	m - ft	1,46 - 4,78
Height	m - ft	2,11 - 6,90
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	12,63 - 443,60
Dry weight (with standard accessories)	kg - lb	3.600 - 7.920
WEIGHT AND DIMENSIONS SOUNDPROOFED GENSET		
Length	m - ft	4,50 - 14,76
Width	m - ft	1,80 - 5,90
Height	m - ft	2,34 - 7,68
Shipping volume seaworthy (Standard supplier)	m ³ - ft ³	18,94 - 668,80
Dry weight (with standard accessories)	kg - lb	5.800 - 12.760

(a) Chassis type K9. The legth datum refers to model with an external control panel (optional). Please consult for other configurations.

Local distributor



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