



HIMOINSA®
THE ENERGY

MODEL
HSW-505 T5
INDUSTRIAL RANGE
Soundproof
Powered by SCANIA



- H1
- WATER-COOLED
- THREE PHASE
- 50 HZ
- STAGE 3A
- DIESEL

Generating Rates



SERVICE		PRP	STANDBY
Power	kVA	501	550
Power	kW	401	440
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	400/230	
Available Voltages	V	230 - 230/132	
Rated at power factor	Cos Phi	0,8	

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HIMOINSA Company with quality certification ISO 9001

HIMOINSA gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2006/95/EC Low voltage.
- 2004/108/CE Electromagnetic compatibility.
- 2000/14/EC Sound Power level. 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)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2005, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

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Engine Specifications 1.500 r.p.m.

ENGINE		PRP
Rated Output	kW	425
Manufacturer		SCANIA
Model		DC16 71A (02-01)
Engine Type		Diesel 4 strokes-cycle
Injection Type		Direct
Aspiration Type		Turbocharged and aftercooled
Cylinders Arrangement		90° V8
Bore and Stroke	mm	130 x 154
Displacement	L	16,4
Cooling System		coolant
Lube Oil Specifications		ACEA E3,E4,E5 or E7
Compression Ratio		16,7:1
Fuel Consumption 100% PRP	l/h	103,9
Fuel Consumption 75 % PRP	l/h	80,22
Fuel Consumption 50 % PRP	l/h	53,73
Lube Oil Consumption Full Load	g/kwh	0,3
Total Oil Capacity	L	48
Governor	Type	Electrical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	104

Generator

Generator		
Poles	Num	4
Winding Conections (standard)		Star-serie
Frame Mounting		S-1 14"
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		self-excited, brushless
Voltage Regulator		A.V.R. (Electronic)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standar (Vacuum impregnation)



Application Data

Exhaust System		
Maximum exhaust temperature	°C	524
Exhaust Gas Flow	Kg/s	0,55
Exhaust Flange Size (external diameter)	mm	160
Heat evacuated through exhaust pipe	KCal/Kwh	603,21

Air Inlet System		
Intake Air Flow	m3/h	1600
Cooling Air Flow	m3/s	14,17
Alternator fan air flow	m3/s	1,035

Starting System		
Starting Motor	kW	7
Starting Motor	CV	9,52
Auxiliary Voltage	Vcc	24

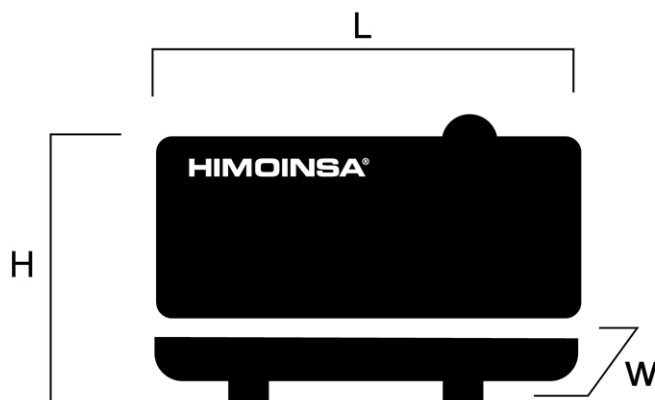
Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	740
Other Fuel tank capacity	L	2.090



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Dimensions



H1 Weight and Dimensions			
(L) Length	mm	4.500	
(H) Height	mm	2.340	
(W) Width	mm	1.800	
Shipping Volume seaworthy (standard supplier)		m3	18,95
(*) Wet weight	Kg	5.081	
Fuel tank capacity		L	740
Autonomy		Hours	9
Sound pressure level		dB(A)@7m	73
(*) (with standard accessories)			

STANDARD VERSION (Steel tank)

Himoinsa reserves the right to modify any characteristic without prior notice.
Weights and dimensions based on products standar. Illustrations may include optional equipment.
Technical data described here correspond with the available information at the moment of printing.
Industrial design under patent.

Local Distributor



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Another measures/dimensions of available versions

Weight and Dimensions		
(L) Length	mm	4.500
(H) Height	mm	2.740
(W) Width	mm	1.800
Shipping Volume seaworthy (standard supplier)	m3	22,19
(*) Wet weight	Kg	5.692
Fuel tank capacity	L	2.090,0
Autonomy	Hours	26
Sound pressure level	dB(A)@7m	73

(*) (with standard accessories)

HIGH CAPACITY VERSION (Steel tank)



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Generating Sets Standard and Optional Features

Engine

- Diesel engine
- 4 strokes-cycle
- Water-cooled
- 24V Electrical system
- Radiator with blowing fan
- Water separator decanting filter (visible level)
- Electronic governor
- Sender WT
- Senders OP
- Low water level sensor
- Dry air cleaner
- Hot components guards
- Mobile components guards

Alternator

- Self-excited and Self-regulated
- IP23 protection degree
- Insulation H class

Electrical system

- Control and power electric panel, with measurements devices and controller (according to necessity and configuration)
- 4 poles circuit breaker
- Battery disconnecter
- Battery charger (standard on automatic control panels)
- Pre-heating resistance (standard on automatic control panels) / water jacket heater
- Battery charge alternator with ground connection
- Starting battery/ies installed and connected to the engine (supports included)
- Ground connection electrical installation with connection ready for ground pike (not supplied)

Soundproofed version

- Steel made chassis
- Oil sump extraction kit
- Versatility to assemble high capacity metallic fuel tank chassis



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Generating Sets Standard and Optional Features

Soundproofed version

- Antivibration shock absorber
 - Chassis with integrated fuel tank
 - Fuel level sensor
 - Emergency stop button
 - Sound attenuated canopy made of high quality steel metal.
 - High mechanical strenght
 - Low noise level
 - Attenuation through high density roock wool material
 - Powder coating
 - Easy acces for service mainteance
 - Reinforced lifting eye to lift by crane
 - Bunded chassis (works as liquids retention tray)
 - Drain fuel tank cap
 - Drain chassis cap
 - Chasis ready for future mobile kit installation
 - Steel made residential silencer -35db(A) attenuation.
- Optional :
- 3 way valve fuel filling (available in 1/2" and 3/8" fittings)
 - Fuel transfer pump