



**HIMOINSA®**  
THE ENERGY

MODEL  
**HDW-645 T5**  
INDUSTRIAL RANGE  
Soundproof  
Powered by DOOSAN



- H1
- WATER-COOLED
- THREE PHASE
- 50 HZ
- NON REQUIRED 97/68
- DIESEL

## Generating Rates



SERVICE		PRP	STANDBY
Power	kVA	641	705
Power	kW	513	564
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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#### Manufacture facilities:

SPAIN • FRANCE • INDIA • CHINA • USA • BRASIL

#### Subsidiaries:

ITALY | PORTUGAL | POLAND | GERMANY | SINGAPORE | UAE | MEXICO | PANAMÁ | ARGENTINA | UK





## Engine Specifications 1.500 r.p.m.

ENGINE		PRP	STANDBY
Rated Output	kW	540	596
Manufacturer		DOOSAN	
Model		DP180LBF	
Engine Type		Diesel 4 strokes-cycle	
Injection Type		Direct	
Aspiration Type		Turbocharged and aftercooled	
Cylinders Arrangement		10 - V	
Bore and Stroke	mm	128 x 142	
Displacement	L	18,273	
Cooling System		coolant	
Lube Oil Specifications		API CH4 SAE 15W40 or 10W40	
Compression Ratio		15:1	
Fuel Consumption StandBy	l/h	149,5	
Fuel Consumption 100% PRP	l/h	136,4	
Fuel Consumption 75 % PRP	l/h	103,8	
Fuel Consumption 50 % PRP	l/h	71,2	
Fuel Consumption 25 % PRP	l/h	38,6	
Lube Oil Consumption Full Load		0,5 % of fuel consumption	
Total Oil Capacity	L	34	
Total Coolant Capacity	L	91	
Heat rejection to coolant	kW	268	
Governor	Type	Electrical	
Air Filter	Type	Dry	

## Generator

Generator		
Poles	Num	4
Winding Connections (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		Standard (Vacuum impregnation)



## Application Data

Exhaust System		
Maximum exhaust temperature	°C	587
Exhaust Gas Flow	m3/min	118
Maximum allowed back pressure	kPa	5,9
Exhaust Flange Size (external diameter)	mm	160
Heat evacuated through exhaust pipe	kW	561

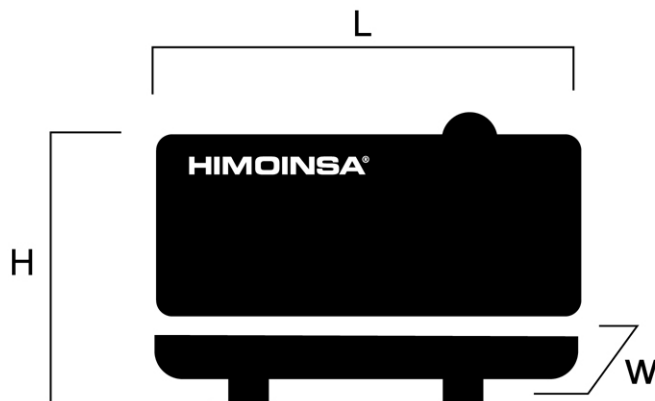
Air Inlet System		
Intake Air Flow	m3/h	2160
Cooling Air Flow	m3/s	11,67
Alternator fan air flow	m3/s	1,035

Starting System		
Starting Motor	kW	7
Starting Motor	CV	9,52
Recommended Battery Capacity	Ah	200 x 2
Auxiliary Voltage	Vcc	24

Fuel System		
Fuel Oil Specifications		Diesel
Maximum power suction pump	mm Hg	225
Maximum return feed pump	mm Hg	450
Fuel Tank	L	740
Other Fuel tank capacity	L	2.090



## Dimensions



<b>H1</b> <i>Weight and Dimensions</i>		
(L) Length	mm	4.500
(H) Height	mm	2.340
(W) Width	mm	1.800
Maximum shipping volume (standard supplier)	m <sup>3</sup>	18,95
(*) Wet weight	Kg	5.493
Fuel tank capacity	L	740
Autonomy	Hours	7
Sound pressure level	dB(A)@7m	80 ± 2,3

(\*) (with standard accessories)

STANDARD VERSION (Steel tank)

Himoinsa has the right to modify any characteristic without prior notice.  
Weights and dimensions based on standard products. 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



## Dimensions of other available versions

<i>Weight and Dimensions</i>		
(L) Length	mm	4.500
(H) Height	mm	2.740
(W) Width	mm	1.800
Maximum shipping volume (standard supplier)	m <sup>3</sup>	22,19
(*) Wet weight	Kg	6.104
Fuel tank capacity	L	2.090,0
Autonomy	Hours	20
Sound pressure level	dB(A)@7m	80 ± 2,3

(\*) (with standard accessories)

HIGH CAPACITY VERSION (Steel tank)



## 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 (no visible level)
- Electronic governor
- Sender WT
- Senders OP
- Dry air cleaner
- Hot parts protection
- Moving parts protection
- Optional :      · Radiator coolant level sender

### Alternator

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

### Electrical system

- Electric control panel with measurements devices and control display (according to necessity and configuration)
- 4 poles circuit breaker
- Battery charger (standard on automatic control panels)
- Pre-heating resistance (standard on automatic control panels) / water jacket heater
- Battery charger 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)
- Optional :      · Battery isolator

### 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 sender
  - Emergency stop button
  - Sound attenuated canopy made of high quality steel metal.
  - High mechanical strenght
  - Low noise level
  - Attenuation through high density rock wool material
  - Epoxy 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