HIMOINSA

MODEL

HJW-180 T5

INDUSTRIAL RANGE
Standard soundproofing
Powered by JOHN DEERE

- E10
- WATER-COOLED
- THREE PHASE
- 50 HZ
- NON COMPLYING 97/68/EC
- DIESEL

Generating Rates

SERVICE		PRP	STANDBY
Power	kVA	182	200
Power	kW	146	160
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	240/415	
Available Voltages	V	220/380-230/400	
Rated at power factor	Cos Phi	0.8	

HIMOINSA Company with quality certification ISO 9001
HIMOINSA gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2005 normative: 1000 mbar, 25ºC, 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

G2 class load acceptance in accordance with ISO 8528-5:2013

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Manufacture facilities:
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Subsidiaries:
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Engine Specifications 1.500 r.p.m.

ENGINE		PRP	STANDBY
Rated Output	kW	166	183
Manufacturer		JOHN DEERE	
Model		6068HF258	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Turbocharged and after-cooled	
Number of cylinders and arrangement		6-L	
Bore and Stroke	mm	106 x 127	
Displacement	L	6,8	
Cooling System		Liquid (water + 50% glycol)	
Lube Oil Specifications		API CF4,CG4,CH4; ACEA E2,E3	
Compression Ratio		17,0:1	
Fuel Consumption Standby	l/h	45,2	
Fuel Consumption 100% PRP	l/h	40,8	
Fuel Consumption 75 % PRP	l/h	31,3	
Fuel Consumption 50 % PRP	l/h	20,5	
Fuel Consumption 25 % PRP	l/h	10,7	
Total oil capacity including tubes, filters	L	32	
Total coolant capacity	L	27	
Governor	Type	Mechanical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	75	

Generator

Generator		
Manufacturer		MECCALTE
Poles	No.	4
Connection type (standard)		Star-series
Mounting type		S-3 11"1/2
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter system		Self-excited, brushless
Voltage regulator		A.V.R. (Electronic)
Bracket type		Single bearing
Coupling system		Flexible disc
Coating type		Standard (Vacuum impregnation)

ISO 9001 SYSTEM CERTIFICATION
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Application Data

Exhaust System		
Maximum exhaust temperature	ºC	603
Exhaust Gas Flow	m^3/min	32,9
Maximum allowed back pressure	kPa	7,5
Exhaust Flange Size (external diameter)	mm	120

Necessary Amount Of Air		
Intake air flow	m^3/h	690
Alternator fan air flow	m^3/s	0,514

Starting System		
Starting power	kW	3
Starting power	CV	4,08
Recommended battery	Ah	50
Auxiliary Voltage	Vdc	12

Fuel System		
Fuel Oil Specifications		Diesel
Fuel Tank	L	450
Other fuel tank capacities	L	950

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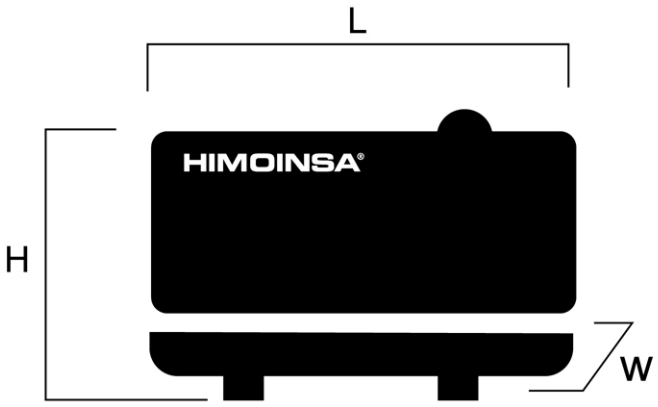
Dimensions



E10	Weight and Dimensions		
(L)	Length	mm	3.300
(H)	Height	mm	1.956
(W)	Width	mm	1.200
	Maximum shipping volume	m^3	7,75
(*)	Weight with liquids in radiator and sump	kg	2.872
(*)	Dry weight	kg	2.440
	Fuel tank capacity	L	450
	Autonomy	Hours	14
	Sound pressure level	dB(A)@7m	69 ± 2,3

(*) (with standard accessories)

STANDARD VERSION (Steel Tank)

Australia has the right to modify any feature without prior notice.
Weights and dimensions based on standard products. Illustrations may include optional equipment.
Technical data described in this catalogue correspond to the available information at the moment of printing.
Industrial design under patent.

Local Distributor

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Dimensions of Other Available Versions

	Weight and Dimensions		
(L)	Length	mm	3.300
(H)	Height	mm	2.179
(W)	Width	mm	1.200
	Maximum shipping volume	m^3	8,63
(*)	Weight with liquids in radiator and sump	kg	3.290
(*)	Dry weight	kg	2.660
	Fuel tank capacity	L	950
	Autonomy	Hours	32
	Sound pressure level	dB(A)@7m	70 ± 2,3

(*) (with standard accessories)

HIGH CAPACITY VERSION (Steel tank)

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Automatic Controller- CEM7

The CEM7 is an Auto-start digital controller which is equipped on Himoinsa generator sets,which is able to control the operation, monitoring and protection of a generator-set.

Controller Display:

- Valtage between each Phase& Neutral
- Valtage between Phases
- Current (amps) on each Phase
- Frequency
- Active, Aparent,& Reactive Power
- Power Factor
- Instant Power (kwH) and Accumulative power
- Fuel level
- Oil pressure, coolant temperature
- Battery voltage, battery charging alternator voltage
- Engine Speed
- Hours running

Engine Alarms:

- High coolant temperature
- Low oil pressure
- Emergency stop
- Battery charging alternator
- Low coolant lewel
- Over Speed
- Under speed
- Low fuel level by sensor
- Battery low voltage

Generator Alarms:

- Over-load
- Unbalanced voltage
- Over-voltage
- Under-voltage
- Over-frequency
- Under-frequency
- Short-circuit
- Inverse Power
- Asymmetry among phases

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Generator set features

Engine

· Diesel engine
· 4-stroke cycle
· 12V electrical system
· Mechanical governor
· Dry air filter
· Hot parts protection
· Moving parts protection

Alternator

· Self-excited and self-regulated
· 4 poles
· IP23 protection
· H class insulation
· Flexible disc coupling

Electrical system

· Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
· 4-pole thermal magnetic circuit breaker
· Battery charger
· Battery charger alternator with ground connection
· Starter battery/ies installed (cables and bracket included)

Optional :
· Heating resistor
· Adjustable earth leakage protection

Soundproofed version

· Steel chassis
· Anti-vibration shock absorbers
· Emergency stop button
· Bodywork made from high quality steel plate
· High mechanical strength
· Low level of noise emissions
· Soundproofing provided by high-density volcanic rock wool
· Epoxy polyester powder coating
· Full access for maintenance (water, oil and filters, no need to remove the bonnet)
· Reinforced lifting hooks for crane hoisting
· Chassis ready for future mobile kit installation
· Steel residential silencer -35db(A) attenuation.
· Versatility to assemble a high capacity chassis with a metallic fuel tank
· IP Protection according to ISO 8528-13:2016

Optional :
· 3-way valve fuel filling (available in 1/2" and 3/8" fittings)
· Galvanized slide carriage and brackets for transportation with forklift