HIMOINSA
A YANMAR COMPANY

MODEL
HTW-2295 T5
HEAVY RANGE
Container
Powered by MITSUBISHI



- 40FT-HC
- WATER-COOLED
- THREE PHASE
- 50 HZ
- DIESEL

Generating Rates

SERVICE		PRP / DCP	ESP
Power	kVA	2295	2500
Power	kW	1836	2000
Rated Speed	r.p.m.	1.500	
Main voltage	V	400/230	
Available Voltages	V	380/220 - 415/240	
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 8528-1:2020 normative: 1000 mbar, 25ºC, 30% relative humidity.

Limited-time running power (LTP):
According to ISO ISO 8528-1:2020, 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 ISO 8528-1:2020, 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

Data Center Power (DCP): The manufacturer declares an acceptable average daily and annual load factor of 100%.
Overload margin: +10%. Operating hours per year: Unlimited (For data center applications located in countries with a stable network). Uptime Institute Compliant: Tier III & IV.

G3 class load acceptance in accordance with ISO 8528-5:2020

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Engine Specifications 1.500 r.p.m.

ENGINE		PRP / DCP	ESP
Rated Engine Output	kW	1899	2106
Manufacturer		MITSUBISHI	
Model		S16R2 PTAW	
Engine Type		4-stroke diesel	
Injection Type		Direct	
Aspiration Type		Turbocharged and after-cooled	
Number of cylinders and arrangement		16-V	
Bore and Stroke	mm	170 x 220	
Displacement	L	79,9	
Cooling System		Water	
Lube Oil Specifications		API CF, SAE 15W40	
Compression Ratio		14,0:1	
Lube oil consumption with full load	g/kWh	0,8	
Total oil capacity including tubes, filters	L	290	
Total coolant capacity	L	510	
Governor	Type	Electrical	
Air Filter	Type	Dry	

Generator

Generator		
Manufacturer		MECC ALTE
Poles	No.	4
Connection type (standard)		Star - Parallel
Mounting type		S-00 21"
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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Nº 10 FENGMING ROAD, SOUTH PART OF WUJIN, HI-TECH INDUSTRIAL DEVELOPMENT ZONE
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Application Data

Exhaust System		
Maximum exhaust temperature	ºC	497
Exhaust Gas Flow	m^3/min	498
Maximum allowed back pressure	mm H_2O	600
Heat dissipated by exhaust pipe	KCal/Kwh	615,26

Necessary Amount Of Air		
Intake air flow	m^3/h	11280
Cooling Air Flow	m^3/s	38,6
Alternator fan air flow	m^3/s	2,25

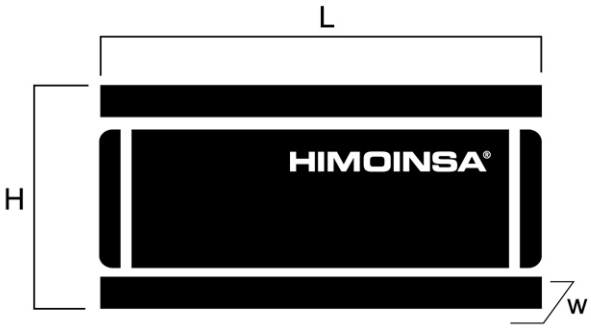
Starting System		
Starting power	kW	7,5 x 2
Starting power	CV	10,2 x 2
Recommended battery	Ah	400
Auxiliary Voltage	Vdc	24
Starter current peak	A	1250
Nominal starter current	A	400

Fuel System		
Fuel Oil Specifications		Diesel
Maximum power suction pump	mm Hg	75
Maximum return feed pump	mm Hg	150
Fuel Tank	L	2.000
Fuel Consumption ESP	l/h	560,7
Fuel Consumption 100% PRP	l/h	500,2
Fuel Consumption 70 % PRP	l/h	346,18
Fuel Consumption 50 % PRP	l/h	251,3

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Dimensions



40 hc	Weight and Dimensions		
(L)	Length	mm	12.190
(H)	Height	mm	2.900
(W)	Width	mm	2.440
	Maximum shipping volume	m^3	86,26
(*)	Weight with liquids in radiator and sump	kg	25.780
	Fuel tank capacity	L	2.000,0
	Autonomy (70% PRP)	Hours	6
	Autonomy (100% PRP)	Hours	4
	Sound pressure level	dB(A)@7m	88 ± 2,4

(*) (with standard accessories)

STANDARD VERSION

Himoinsa China 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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CONTROL PANEL MODEL

M5

Control panel with CEM8 Auto-Start controller, thermal-magnetic and earth leakage relay (according to voltage and frequency). Digital control unit CEM 8

AS5

Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM8 unit. (*) AS5 as optional with CEA8 unit. Automatic panel without transfer switch and WITH mains control. Digital control unit CEM8 CEA8

AS5 + CC2

Automatic panel WITH transfer switch and with mains control. The display will be on the genset and on the cabinet. Digital control unit CEM8+CEC8

CC2

Himoinsa Switching cabinet WITH display. Digital control unit CEC8

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Controller features (I)

• : Standard
x : Not included
• : Optional

Generator Readings	CEM 8
Voltage between phases	•
Voltage between neutral and phase	•
Current intensities	•
Frequency	•
Apparent power (Kva)	•
Active power (Kw)	•
Reactive power (kVAr)	•
Power factor	•
Mains Readings	**CEM 8**
Voltage between phases	x
Voltage between phases and neutral	x
Current intensities	x
Frequency	x
Apparent power	x
Active power	x
Reactive power	x
Power factor	x
Engine Readings	**CEM 8**
Coolant temperature	•
Oil pressure	•
Fuel level (%)	•
Battery voltage	•
R.P.M.	•
Battery charge alternator voltage	•
Engine Protections	**CEM 8**
High water temperature	•
High water temperature by sensor	•
Low water temperature by sensor	•
Low oil pressure	•
Low oil pressure by sensor	•
Low water level	•
Unexpected shutdown	•

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Controller features (II)

• : Standard
x : Not included
• : Optional

Engine Protections	CEM 8
Fuel storage	•
Fuel storage by sensor	•
Stop failure	•
Battery voltage failure	•
Battery charge alternator failure	•
Overspeed	•
Underspeed	•
Start failure	•
Emergency stop	•
Alternator Protections	**CEM 8**
High frequency	•
Low frequency	•
High voltage	•
Low voltage	•
Short-circuit	•
Asymmetry between phases	•
Incorrect phase sequence	•
Inverse power	•
Overload	•
Genset signal drop	•
Counters	**CEM 8**
Total hour counter	•
Partial hour counter	•
Kilowatt meter	•
Starts valid counters	
Starts failure counters	•
Maintenance	•
Communications	**CEM 8**
RS232	x
RS485	•
Modbus IP	•
Modbus	•

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Controller features (III)

• : Standard
x : Not included
• : Optional

Communications	CEM 8
CCLAN	•
Software for PC	•
Analogue modem	•
GSM/GPRS modem	x
Remote screen	•
Tele signal	•
J1939	•
Features	**CEM 8**
Alarm history	•
External start	•
Start inhibition	•
Mains failure start	x
Start under normative EJP	•
Pre-heating engine control	•
Genset contactor activation	•
Mains & Genset contactor activation	x
Fuel transfer control	•
Engine temperature control	•
Manual override	•
Programmable alarms	•
Genset start function in test mode	•
Programmable outputs	•
Multilingual	•
Special Functions	**CEM 8**
GPS Positioning	x
Synchronisation	x
Mains synchronization	x
Second Zero elimination	x
RAM7	•
Remote screen	•

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Generator set features

Engine

· Oil temperature sensor
· Low coolant level sensor
· Exhaust gas compensator
· Diesel engine
· 4-stroke cycle
· Water-cooled
· 24V electrical system
· Standard air filter
· Standard fuel filter
· Standard oil filter
· Radiator with pusher fan (vertical configuration)
· HTW sender
· LOP sender
· Hot parts protection
· Moving parts protection

Alternator

· Self-excited and self-regulated
· 4 poles
· AVR governor
· IP23 protection
· H class insulation

Container version

· Soundproofing provided by high-density volcanic rock wool
· High mechanical resistance
· Low level of noise emissions
· Door with window to visualize control panel, alarms and measurements
· Reinforced lifting points for crane hoisting and lower ones for transportation by forklift
· Residential steel silencer with -35dB attenuation and tilting cap in the exhaust
· Fuel tank integrated in the chassis
· Anti-vibration shock absorbers
· Steel chassis

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Generator set features

Container version

· Manual oil extraction pump
· Robust construction designed for continuous or emergency applications
· Stainless steel fittings
· Emergency stops
· Easy access to the power connection
· Reinforced chassis for heavy range
· Easy access for chassis cleaning
· Silent-block with anti-corrosion protection between the genset and the chassis
· Easy access to fill radiator through the roof

Electrical System Container

· Control panel and emergency stop button
· Power panel
· Battery charger (standard on automatic control panels)
· Water Jacket Heater with single phase pump
· Battery charge alternator with ground connection
· Starter battery/ies installed (cables and bracket included)
· Ground connection electrical installation with connection ready for ground spike (not supplied)
· Power panel with safety protection in output terminals box (open thermal magnetic protection and alarm)
· Maintenance-free and anti-explosion battery
· Battery isolator

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PDF Summary

Created : 06/11/2026 12:57
Author : Himoinsa
Number of pages : 11
Report Type: Data Sheet - Heavy range
Generated by: HIMOINSA Engineering Dept.

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