



HIMOINSA®
THE ENERGY

MODEL
HTW-1260 T5
HEAVY RANGE
Container
Powered by MITSUBISHI



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

Generating Rates



SERVICE		PRP	STANDBY
Power	kVA	1260	1350
Power	kW	1008	1080
Rated Speed	r.p.m.	1.500	
Standard Voltage	V	400/230	
Available Voltages	V	380/220 - 415/240	
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	STANDBY
Rated Output	kW	1080	1190
Manufacturer		MITSUBISHI	
Model		S12R PTA	
Engine Type		Diesel 4 strokes-cycle	
Injection Type		Direct	
Aspiration Type		Turbocharged and aftercooled	
Cylinders Arrangement		12V	
Bore and Stroke	mm	170 x 180	
Displacement	L	49,03	
Cooling System		Water	
Lube Oil Specifications		API CD or CF SAE 30 or SAE 40	
Compression Ratio		14,0:1	
Fuel Consumption StandBy	l/h	287,92	
Fuel Consumption 100% PRP	l/h	261,31	
Fuel Consumption 75 % PRP	l/h	201,75	
Fuel Consumption 50 % PRP	l/h	146,03	
Fuel Consumption 25 % PRP	l/h	89,67	
Lube Oil Consumption Full Load	g/kwh	0,8	
Total oil capacity including tubes, filters	L	180	
Total Coolant Capacity	L	335	
Governor	Type	Electrical	
Air Filter	Type	Dry	
Inner diameter exhaust pipe	mm	304	

Generator

Generator		
Poles	Num	4
Winding Conections (standard)		Star
Frame Mounting		S-0 21"
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	520
Exhaust Gas Flow	m3/min	258
Maximum allowed back pressure	mm H2o	600
Heat evacuated through exhaust pipe	KCal/Kwh	587,17

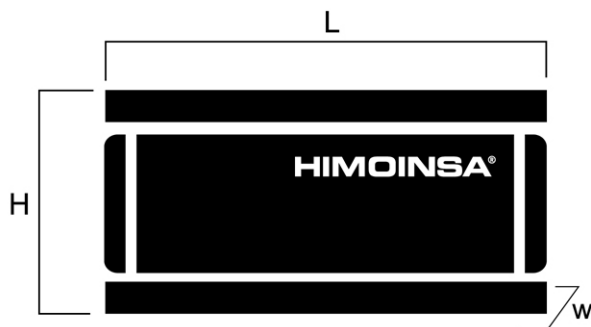
Air Inlet System		
Intake Air Flow	m3/h	5880
Cooling Air Flow	m3/s	30
Alternator fan air flow	m3/s	2,69

Starting System		
Starting Motor	kW	7,5 x 2
Starting Motor	CV	10,2 x 2
Recommended Battery Capacity	Ah	400
Auxiliary Voltage	Vcc	24
Current of starter (Rush)	A	1250
Current of starter (Cranking)	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



Dimensions



40 hc	Weight and Dimensions		
(L)	Length	mm	12.192
(H)	Height	mm	2.896
(W)	Width	mm	2.438
	Maximum shipping volume (standard supplier)	m3	86,08
(*)	Wet weight	Kg	20.000
(*)	Dry weight	Kg	19.507
	Fuel tank capacity	L	2.000,0
	Autonomy	Hours	10
	Sound pressure level	dB(A)@7m	74 ± 2,3

(*) (with standard accessories)

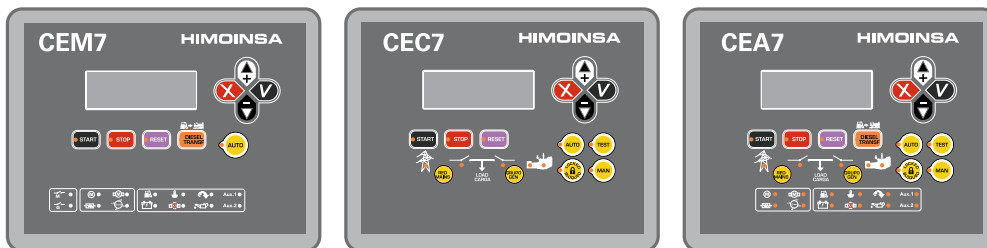
STANDARD VERSION

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



Control Panel Models



CEM7

CEC7

CEA7

FUNCTIONALITY	PANEL MODEL	CONTROLLER MODE
Auto-start	M5	CEM7
Automatic Control Panel Without Mains Control	AS5	CEM7**
Automatic Control Panel With Mains Control (customer change over contactors)	AS5	CEA7
Automatic Control Panel With Mains Control (Himoinsa change over contactor with display)	AS5XCC2	CEM7+CEC7
Automatic Mains Failure (wall mounted panel)	AC5	CEA7

(**) Pre-heating resistance in the Genset and Battery charger in the control panel included.

Option available: Auto-start control panel without circuit breaker

General Description

CEM7

The CEM7 controller unit is a device able to control de operation, monitoring and protection of a generating set. The controller unit consists of 2 different modules:

- 1.The VISUALIZATION module
- 2.The MEASUREMENTS module

VISUALIZATION MODULE
 Provides information about the status of the device and, at the same time, allows the user to interact with it. It consists on a backlit display and various LEDs for monitoring the status of the controller and buttons that allow the user to control, program and configure the functions of the unit.

MEASUREMENTS MODULE
 Controls and monitors the control board. It is located in the rear part of the panel, in order to reduce the wiring and to avoid electromagnetic disturbances. Every signal, sensor and actuator is connected to this module.

The connexion between the visualization module and the measurements module is made with a CAN communication bus. This feature allows the intercommunication of other modules to the main controller with a scalability warranty.

CEC7

The CEC7 controller unit is a net sings supervision equipment, and control and supply supplier through generating set. The controller unit consists of 2 different modules:

- 1.The VISUALIZATION module
- 2.The MEASUREMENTS module

VISUALIZATION MODULE
 The visualization module provides information about the status of the device and, at the same time, allows the user to interact with it. With this visualization module the user is able to control, program and configure the functions of the unit. It consists on a backlit display and various LEDs for monitoring the status of the controller and buttons that allow the user to control, program and configure the functions of the unit.

MEASUREMENTS MODULE
 The measurements module controls and monitors the control board. It is located in the rear part of the panel, in order to reduce the wiring and to avoid electromagnetic disturbances. Every signal, sensor and actuator is connected to this module

The connection between the measure module and visualization mode is made by means of a CAN BUS (Communication Bus). This produces an interconnection between additional modules which guarantees the proper working of the controller.

CEA7

CEA7 controller is a supervision equipment for mains signal and also a supervision and electrical supply through the genset. This controller is composed by 2 different modules:

- 1.VISUALIZATION module
- 2.MEASUREMENTS module

VISUALIZATION MODULE
 The visualization module provides information about the status of the device and, at the same time, allows the user to interact with it. With this visualization module the user is able to control, program and configure the functions of the unit.

MEASUREMENTS MODULE
 The measurements module controls and monitors the control board. It is located in the rear part of the panel, in order to reduce the wiring and to avoid electromagnetic disturbances. Every signal, sensor and actuator is connected to this module. Connection between the measure module and visualization mode is made by means of a CAN BUS (Communication Bus). This produces an interconnection between additional modules which guarantees the proper working of the controller.



Control & Power Panel

1. CM Control Panel.
2. CP Power Panel.
3. On/Off Switch..
4. Emergency Stop.
5. Main Line Circuit Breaker for overload protection.
6. Main bus /hardwire connection panel with safety protection.

CE-7 Auto-start multilingual control panel

1. Voltage between each Phase & Neutral
2. Voltage between Phases
3. Current (amps) on each Phase
4. Frequency
5. Active, Aparent & Reactive Power
6. Power Factor
7. Instant Power (KwH) and Accumulative power)
8. Fuel level
9. Oil pressure, coolant temperature, oil temperature
10. Battery voltage, battery charging alternator voltage
11. Engine Speed
12. Hours running
13. Multilingual (Spanish, English, French, Italian, Portuguese, Polish, German, Chinese, Russian, Swedish, Norwegian)

Engine Alarms

1. High coolant temperature.
2. Low oil pressure.
3. Battery charge alternator
4. Start failure.
5. Low water level.
6. Fuel storage.
7. Overspeed.
8. Underspeed.
9. Low battery voltage.
10. High coolant temperature by sensor.
11. Low oil pressure by sensor.
12. Low fuel level by sensor.
13. Unexpected shutdown.
14. Stop failure.
15. Low engine temperature.
16. Genset voltage drops.
17. Emergency stop.

Genset Alarms

1. Over-load
2. Unbalanced voltage
3. Over voltage
4. Under voltage
5. Over frequency
6. Under frequency
7. Over load
8. Short-circuit
9. Inverse Power
10. Asymmetry among phases
11. Genset contactor Failure

Mains Alarms

1. Maximum Mains Voltage.
2. Minimum Mains Voltage.
3. Maximum Mains Frequency.
4. Minimum Mains Frequency.
5. Mains phase sequence failure.
6. Mains power failure.
7. Mains contactor switching failure.

Programmable Alarms:
There are 5 programmable alarms on text and action that could be associated to any engine alarms and showed on the auxiliary led 1 and 2 of the display



Controllers Features

	CEM 7	CEC 7	CEA 7	CEM7 + CEC7
GENERATOR READINGS				
Voltage among phases
Voltage among phases and neutral
Amperage
Frequency
Apparent power (kVA)
Active power (kW)
Reactive power (kVAr)
Power factor
MAINS READINGS				
Voltage among phases	x	.	.	.
Voltage among phase and neutral	x	.	.	.
Amperage	x	.	.	.
Frequency	x	.	.	.
Apparent power	x	X	.	.
Active power	x	X	.	.
Reactive power	x	X	.	.
Power factor	x	X	.	.
ENGINE READINGS				
Coolant temperature	.	X	.	.
Oil pressure	.	X	.	.
Fuel level (%)	.	X	.	.
Battery voltage	.	X	.	.
R.P.M.	.	X	.	.
Battery charge alternator voltage	.	X	.	.
ENGINE PROTECTIONS				
High water temperature	.	X	.	.
High coolant temperature by sensor	.	X	.	.
Low engine temperature by sensor	.	X	.	.
Low oil pressure	.	X	.	.
Low oil pressure by sensor	.	X	.	.
Low coolant level	.	X	.	.
Unexpected shutdown	.	X	.	.
Fuel storage	.	X	.	.
Fuel storage by sensor	.	X	.	.
Stop failure	.	X	.	.
Battery voltage failure	.	X	.	.
Battery charge alternator failure	.	X	.	.
Overspeed	.	X	.	.
Underspeed	.	X	.	.
Start failure	.	X	.	.
Emergency Stop
ALTERNATOR PROTECTIONS				
High frequency
Low frequency
High voltage
Low voltage
Short-circuit	.	X	.	.
Asymmetry among phases
Incorrect phase sequence
Inverse power	.	X	.	.
Overload	.	X	.	.
Genset signal droop

- Standard
- x Not included
- Optional

NOTE: All protections are programmable to make "warning" or "stop with cooling time" or "without"



Controllers Features

	CEM 7	CEC 7	CEA 7	CEM7 + CEC7
COUNTERS				
Total hour counter	•	•	•	•
Partial hour counter	•	•	•	•
Kilowattimeter	•	•	•	•
Starts valid counters	•	•	•	•
Starts failure counters	•	•	•	•
Maintenance	•	•	•	•
COMMUNICATIONS				
RS232	•	•	•	•
RS485	•	•	•	•
Modbus IP	•	•	•	•
Modbus	•	•	•	•
CCLAN	•	X	•	•
Software for PC	•	•	•	•
Analogic modem	•	•	•	•
GSM/GPRS modem	•	•	•	•
Remote screen	•	X	•	•
Telesignal	•(8+4)		•(8+4)	•(8+4)
J1939	•	X	•	•
FEATURES				
Alarms history	(10) / (+100)	-10	(10) / (+100)	(10) / (+100)
External start	•	•	•	•
Start inhibition	•	•	•	•
Mains failure start	•(CEC7)	•	•	•
Start under normative EJP	•	X	•	•
Genset contactor activation	•	X	X	•
Main & Genset contactor activation	X	•	•	•
Fuel transfer control	•	X	•	•
Engine temperature control	•	X	•	•
Manual override	•	X	•	•
Programmable alarms	•	X	•	•
Genset start function in test mode	•	X	•	•
Programmable outputs	•	X	•	•
Multilingual	•	•	•	•
SPECIAL FUNCTIONS				
Positioning GPS	•		•	•
Synchronization with mains	•		•	•
Mains Synchronism	•		•	•
Second Zero suppression	•		•	•
RAM 7	•		•	•
Remote screen	•		•	•
Timer	•		•	•

- Standard
- x Not included
- Optional

CEC7: available when the controller CEC7 is incorporated to the installation
MPS 5.0: available application when the module MPS 5. has been incorporated to the panel.
Note: AS5 + CC2 configuration, will have all CEM7 functionality plus CEC7 mains readings.



Generating Sets Standard and Optional Features

Engine

- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Coolant level sender
- Exhaust gas compensator
- Diesel engine
- 4 strokes-cycle
- Water-cooled
- 24V Electrical system
- Radiator with blowing fan
- Electronic governor
- Sender WT
- Senders OP
- Hot parts protection
- Moving parts protection

Alternator

- Insulation H class

Container version

- Low emissions level
- Door with window to visualize control panel, alarms and measurements
- Hoisting points reinforced for crane lifting and forklift pockets
- Residential silencer steel made, with -35dB attenuation and tilting cap in the exhaust
- Fuel tank integrated in the chassis
- Anti-vibration shock absorbers
- Steel chassis
- 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

Container Electrical System

- Pre-heating resistance (standard on automatic control panels)
- Battery charge alternator with ground connection
- Ground connection electrical installation with connection ready for ground pike (not supplied)
- Power panel with safety protection in output terminals box (open thermal magnetic protection and alarm)
- Maintenance-free and anti-blast battery
- Battery isolator



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PDF Summary

Created : 14/10/2015 08:35

Author : Himoinsa

Number of pages : 10

Report Type: Data Sheet - **Heavy range**

Generated by: HIMOINSA Engineering Dept.

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