



SERVICE		PRP	ESP
POWER	kVA	147	163
POWER	kW	118	130
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/132 · 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	0,8	



## INDUSTRIAL RANGE

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)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2012/46/EU)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO 8528-1:2018, 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 8528-1:2018, 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

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

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

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## STANDARD SOUNDPROOFING



F1



WATER-COOLED



THREE PHASE



50 HZ



NOT AVAILABLE



NATURAL GAS

Himoinsa 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.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.



## Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	127,6
Rated Output (ESP)	kW	141,6
Manufacturer	PSI	
Model	8.1LT	
Engine Type	4-stroke Otto Cycle	
Injection Type	Carburization	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	6-L	
Bore and Stroke	mm	111 x 139
Displacement	L	8,1
Cooling System	Coolant	
Lube Oil Specifications	API CD/≥CF, SAE 15W40	
Compression Ratio	10,5 : 1	

Fuel Consumption ESP	Nm3/h	41,1
Fuel Consumption 100% PRP	Nm3/h	37,1
Fuel Consumption 75 % PRP	Nm3/h	29,2
Fuel Consumption 50 % PRP	Nm3/h	21,2
Fuel Consumption 25 % PRP	Nm3/h	12,7
Total oil capacity including tubes, filters	L	27,5
Total coolant capacity	L	80
Heat dissipated by coolant	kW	135
Governor	Type	Electrical
Air Filter	Type	Dry



- Natural Gas engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Dry air filter
- Radiator with pusher fan
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection



## Generator Specifications | STAMFORD

Manufacturer	STAMFORD	
Model	UCI274F	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-2 11,5"	
Insulation	Class	H class

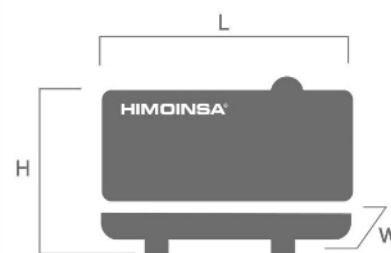
Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection
- H class insulation
- Single drive-shaft
- Flexible disc coupling

## WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	3.800
Height (H)	mm	2.253
Width (W)	mm	1.400
Maximum shipping volume	m <sup>3</sup>	11,99
Weight with liquids in radiator and sump	Kg	3245
Autonomy	Hours	Ask



## SOUND PRESSURE

Sound pressure level	dB(A)@7m	69 ± 2,4
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## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	750
Exhaust Gas Flow	m <sup>3</sup> /min	26,8
Maximum allowed back pressure	kPa	10,2
Exhaust Flange Size (external diameter)	mm	140

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	480
Alternator fan air flow	m <sup>3</sup> /s	0,514

### STARTING SYSTEM

Starting power	kW	4,5
Starting power	CV	6,12
Recommended battery	Ah	150
Auxiliary Voltage	Vdc	24

### FUEL SYSTEM

Fuel Oil Specifications	Natural Gas	
Lower heating value (LHV)	kWh/Nm <sup>3</sup>	9,85
Composition *	95% Methane	
Fuel supply connection size	Inches	2
Fuel supply pressure	mbar	70 - 300



## Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- 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 canopy)
- Reinforced lifting hooks for crane hoisting
- Watertight chassis (acts as a double barrier against liquid retention)
- Chassis drain plug
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- IP Protection according to ISO 8528-13:2016



## Gas ramp

- Manual shut-off valve
- Gas filter
- Double solenoid valve
- Primary pressure regulator
- Secondary pressure regulator (Zero pressure regulator)
- Low pressure switch
- Valve (tightness) testing system
- Inlet pressure manometer
- Outlet pressure manometer
- Special Start/Stop sequence
- High pressure regulator (Opcional).
- High pressure switch (Opcional).



## FEATURES OF THE CONTROL UNITS

	CEM 7-G	CEA 7-G	CEC 7	CEM 7-G + CEC7
<b>Generator Readings</b>	Voltage between phases	●	●	●
	Voltage between neutral and phase	●	●	●
	Current intensities	●	●	●
	Frequency	●	●	●
	Apparent power (Kva)	●	●	●
	Active power (Kw)	●	●	●
	Reactive power (kVAR)	●	●	●
	Power factor	●	●	●
	Low feed pressure	●	●	●
	Sealing check solenoid valve	●	●	●
<b>Mains Readings</b>	Voltage between phases		●	●
	Voltage between phases and neutral		●	●
	Current intensities		●	●
	Frequency		●	●
	Apparent power		●	
	Active power		●	
	Reactive power		●	
<b>Engine Readings</b>	Coolant temperature	●	●	●
	Oil pressure	●	●	●
	Battery voltage	●	●	●
	R.P.M.	●	●	●
	Battery charge alternator voltage	●	●	●
<b>Engine Protections</b>	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	●	●	●
	Stop failure	●	●	●
	Battery voltage failure	●	●	●
	Battery charge alternator failure	●	●	●
	Overspeed	●	●	●
	Underspeed	●	●	●
	Start failure	●	●	●
	Emergency stop	●	●	●

● Standard

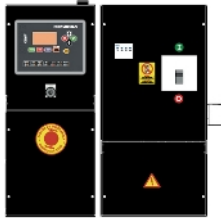
⊙ Optional

	CEM 7-G	CEA 7-G	CEC 7	CEM 7-G + CEC7
<b>Alternator Protections</b>	High frequency	●	●	●
	Low frequency	●	●	●
	High voltage	●	●	●
	Low voltage	●	●	●
	Short-circuit	●	●	●
	Asymmetry between phases	●	●	●
	Incorrect phase sequence	●	●	●
	Inverse power	●	●	●
	Overload	●	●	●
	Genset signal drop	●	●	●
<b>Counters</b>	Total hour counter	●	●	●
	Partial hour counter	●	●	●
	Kilowatt meter	●	●	●
	Starts valid counters	●	●	●
	Starts failure counters	●	●	●
	Maintenance	●	●	●
<b>Communications</b>	RS232	⓪	⓪	⓪
	RS485	⓪	⓪	⓪
	Modbus IP	⓪	⓪	⓪
	Modbus	⓪	⓪	⓪
	CCLAN	⓪	⓪	⓪
	Software for PC	⓪	⓪	⓪
	Analogue modem	⓪	⓪	⓪
	GSM/GPRS modem	⓪	⓪	⓪
	Remote screen	⓪	⓪	⓪
	Tele signal	⓪ (8 + 4)	⓪ (8 + 4)	⓪ (8 + 4)
J1939	⓪	⓪	⓪	
<b>Features</b>	Alarm history	● (10) / (opc. +100)	● (10) / (opc. +100)	● (10) / (opc. +100)
	External start	●	●	●
	Start inhibition	●	●	●
	Mains failure start	●	●	●
	Start under normative EJP	●	●	●
	Pre-heating engine control	●	●	●
	Genset contactor activation	●	●	●
	Mains & Genset contactor activation	●	●	●
	Engine temperature control	●	●	●
	Manual override	●	●	●
	Programmable alarms	●	●	●
	Genset start function in test mode	●	●	●
	Programmable outputs	●	●	●
	Multilingual	●	●	●
<b>Special Functions</b>	GPS Positioning	⓪	⓪	⓪
	Synchronisation	⓪	⓪	⓪
	Mains synchronization	⓪	⓪	⓪
	Second Zero elimination	⓪	⓪	⓪
	RAM7	⓪	⓪	⓪
	Remote screen	⓪	⓪	⓪
	Programming timer	⓪	⓪	⓪

● Standard      ⓪ Optional



# CONTROL PANELS



## M5

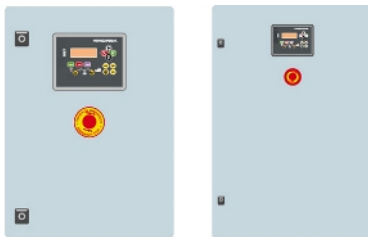
Digital manual Auto-Start control panel and thermal magnetic protection (depending on current and voltage) and differential with CEM7.

Digital control unit CEM7



## AS5

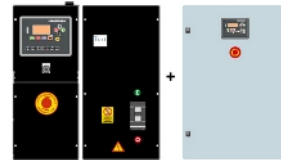
Automatic panel WITHOUT transfer switch and WITHOUT mains control with CEM7 unit. (\*) AS5 as optional with CEA7 unit. Automatic panel without transfer switch and WITH mains control.



## CC2

Himoinsa Switching cabinet WITH display.

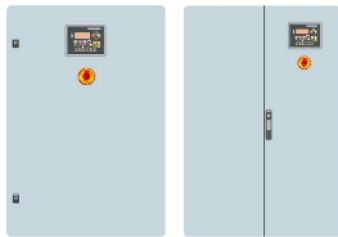
Digital control unit CEC7



## 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 CEM7+CEC7



## AC5

Automatic mains failure control panel. Wall-mounted cabinet WITH transfer switch and thermal magnetic protection (depending on current and voltage).

Digital control unit CEA7



## Electrical system

- Electric control and power panel with measurements devices and control unit (according to necessity and configuration)
- 4-pole thermal magnetic circuit breaker
- Adjustable earth leakage protection (time & sensitivity) standard in M5 and AS5, with thermal magnetic protection
- Battery charger (standard on gensets with automatic control panels)
- Heating resistor (standard on sets with automatic control panels)
- Battery charger alternator with ground connection
- Starter battery/ies installed (cables and bracket included)
- Ground connection electrical installation with connection ready for ground spike (not supplied)
- Battery Switch (Opcional).