



SERVICE		COP
POWER	kVA	978
POWER	kW	978
RATED SPEED	r.p.m.	1.500
STANDARD VOLTAGE	V	400/230
RATED AT POWER FACTOR	Cos Phi	1,0



## HEAVY 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.

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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## CONTAINER



40FT-HC



WATER-COOLED



THREE PHASE



50 HZ



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 (COP)	kW	1040
Manufacturer		MTU
Model		8V4000L64
Engine Type		4-stroke Otto Cycle
Injection Type		Carburization
Aspiration Type		Turbocharged and after-cooled
Number of cylinders and arrangement		8-V
Bore and Stroke	mm	170 x 210
Displacement	L	38,1
Cooling System		Coolant
Lube Oil Specifications		SAE 40
Compression Ratio		14,0

Fuel Consumption 100% COP	Nm3/h	242,5
Fuel Consumption 75 % COP	Nm3/h	185,4
Fuel Consumption 50 % COP	Nm3/h	130,5
Total oil capacity	L	200
Total coolant capacity	L	234
Governor	Type	Electrical
Air Filter	Type	Dry



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



## Generator Specifications | STAMFORD

Manufacturer		STAMFORD
Model		PI734E
Poles	No.	4
Connection type (standard)		Star
Mounting type		S-00 21"
Insulation	Class	H class

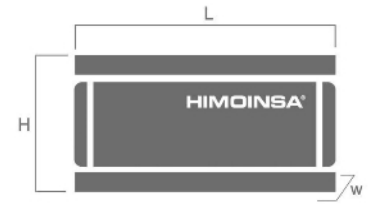
Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



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

## WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	12.192
Height (H)	mm	2.896
Width (W)	mm	2.438
Maximum shipping volume	m <sup>3</sup>	86,08
Weight with liquids in radiator and sump	Kg	21206
Autonomy	Hours	Ask



## SOUND PRESSURE

Sound pressure level	dB(A)@7m	78 ± 2,4
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## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	427
Exhaust Gas Flow	m <sup>3</sup> /min	66,51
Maximum allowed back pressure	mbar	60

### STARTING SYSTEM

Starting power	KW	9
Starting power	CV	12,24
Auxiliary Voltage	Vdc	24

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	3864
Alternator fan air flow	m <sup>3</sup> /s	2,69

### FUEL SYSTEM

Fuel Oil Specifications	Natural Gas	
Lower heating value (LHV)	kWh/Nm <sup>3</sup>	9,5
Composition *	95% Methane	
Fuel supply connection size	mm	80
Fuel supply pressure	mbar	120 - 250



## 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
- Anti-vibration shock absorbers
- Steel chassis
- 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



## Gas ramp

- Gas filter
- Double solenoid valve
- Gas pressure regulator
- Low pressure switch
- High pressure switch
- Inlet pressure manometer
- Outlet pressure manometer



## 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
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 Container

- Control panel and emergency stop button
- Power panel
- Battery charger (standard on automatic control panels)
- Heating resistor (standard on sets with automatic control panels)
- 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)
- 4 pole circuit breaker
- Battery isolator