



SERVICE		PRP	ESP *
POWER	kVA	487	520
POWER	kW	389	416
RATED SPEED	r.p.m.	1.500	
MAIN VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/115 230 V (t) 380/220 415/240	
RATED AT POWER FACTOR	Cos Phi	0,8	

\* ESP power only available on special engine configurations. Consult Gas Commercial Engineering



## 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)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2020 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to 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 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

Continuous Power (COP): According to Standard ISO 8528-1:2020, 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.

\*Class G2\* performance according to the load impact test according to ISO 8528-5:2020

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## CONTAINER



20FT-HC



WATER-COOLED



THREE PHASE



50 HZ



LPG

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.

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

Rated Engine Output (PRP)	kW	415
Rated Engine Output (ESP) *	kW	464
Manufacturer	PSI	
Model	40L	
Engine Type	4-stroke Otto Cycle	
Injection Type	Direct	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	12-V	
Bore and Stroke	mm	150 x 185
Displacement	L	39,2
Cooling System	Coolant	
Lube Oil Specifications	SAE 15W40; API CD or CE	
Compression Ratio	10,5:1	

Total oil capacity	L	146
Total coolant capacity	L	172
Heat dissipated by coolant	kW	407
Governor	Type	Electrical
Air Filter	Type	Dry

- LPG-liquefied petrol gas engine
- 4-stroke cycle
- Water-cooled
- Radiator with pusher fan
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection



## Generator Specifications | STAMFORD

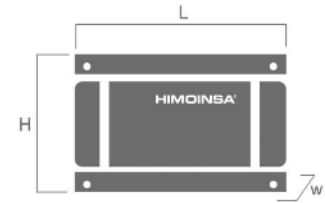
Manufacturer	STAMFORD	
Model	S5L1S.C4	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-0 18"	
Insulation	H class	

Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Double drive-shaft
Coupling system	Elastic Coupling
Coating type	Standard (Vacuum impregnation)

- Self-excited and self-regulated
- IP23 protection
- H class insulation
- Single drive-shaft

## WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	6060
Height (H)	mm	2900
Width (W)	mm	2440
Maximum shipping volume	m <sup>3</sup>	42,88
Weight with liquids in radiator and sump	Kg	Ask
Fuel tank capacity	L	999
Autonomy (70% PRP)	Hours	1
Autonomy (100% PRP)	Hours	1



## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	633
Exhaust Gas Flow	m <sup>3</sup> /min	75
Maximum allowed back pressure	kPa	13
Heat dissipated by exhaust pipe	kW	381

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	1500
Alternator fan air flow	m <sup>3</sup> /s	1,035

### FUEL CONSUMPTION

Fuel Consumption ESP	kw	1582
Fuel Consumption 100% PRP	kw	1484
Fuel Consumption 70 % PRP	kw	987,4
Fuel Consumption 50 % PRP	kw	753

### FUEL SYSTEM

Fuel Oil Specifications		LPG
Fuel supply connection size	mm	65
Fuel supply pressure	mbar	100 - 300
Fuel Tank	L	999

### STARTING SYSTEM

Starting power	kW	10
Starting power	CV	13,6
Recommended battery	Ah	75 x 4
Auxiliary Voltage	Vdc	24



## 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

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



## Control Panels

### 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 CEAB unit. Automatic panel without transfer switch and WITH mains control.  
Digital control unit CEM8 CEAB

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### 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



## 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)
- Battery isolator