



## Outputs

### 400 Volt




2 x Powerlocks (loose cable + quick connector) **No1**

! x Loose strip (Loose cables) terminal strip located inside the cabinet **No2**

SERVICE		PRP	ESP
POWER	kVA	200	220
POWER	kW	160	176
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	



## SOUNDPROOFED RENTAL

-  E19RV
-  WATER-COOLED
-  THREE PHASE
-  50 HZ
-  STAGE V
-  DIESEL

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	176
Rated Output (ESP)	kW	195
Manufacturer	FPT_IVECO	
Model	N67.TEVP05	
Engine Type	4-stroke diesel	
Injection Type	Direct, common rail	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	6-L	
Bore and Stroke	mm	104 x 132
Displacement	L	6,7
Cooling System	Liquid (water + 50% glycol)	
Lube Oil Specifications	10W40 CJ4 / CK4 ACEA E9	
Compression Ratio	17:1	

Fuel Consumption ESP	l/h	48,1
Fuel Consumption 100% PRP	l/h	42,8
Fuel Consumption 80 % PRP	l/h	33,9
Fuel Consumption 50 % PRP	l/h	21,3
Total oil capacity including tubes, filters	L	17,2
Total coolant capacity	L	25,5
Governor	Type	Electrical
Air Filter	Type	Dry



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Water separator filter (no visible level)
- Dry air filter
- Radiator with pusher fan
- Radiator water level sensor
- Electronic governor
- Hot parts protection
- Moving parts protection



## Generator Specifications | MECC ALTE

Manufacturer	MECC ALTE	
Model	ECO38 2S/4 A	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-3 11*1/2	
Insulation	Class	H class

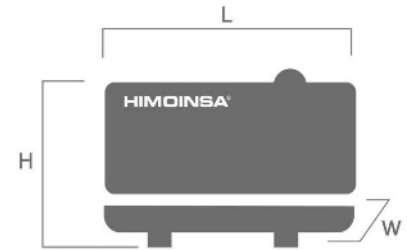
Enclosure (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing
Coupling system	Flexible disc
Coating type	Standard (Vacuum impregnation)



- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection

## WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	4.000
Height (H)	mm	2.000
Width (W)	mm	1.190
Maximum shipping volume	m <sup>3</sup>	9,52
Weight with liquids in radiator and sump	Kg	2980
Fuel tank capacity	L	580
Autonomy	Hours	17
Steel tank		



## SOUND PRESSURE

Sound pressure level	dB(A)@7m	66 ± 2,4
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## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	550
Maximum allowed back pressure	kPa	20
Exhaust Flange Size (external diameter)	mm	120

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	665
Cooling Air Flow	m <sup>3</sup> /s	2,84
Alternator fan air flow	m <sup>3</sup> /s	0,533

### STARTING SYSTEM

Auxiliary Voltage	Vdc	24
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### FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	580



## Soundproofed version

- Steel chassis
- Manhole to fill the radiator
- Pre-installation or niche to house the quick connection hydraulic fittings for fuel transfer
- Anti-leakage chassis, predisposed to retain liquids (retention tray)
- Manhole for fuel tank cleaning and drainage
- Manhole for chassis cleaning
- Slide carriage and brackets for transportation with forklift
- Tilting cap in the exhaust
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- 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
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Emergency stop button (double emergency stop protection: Interior on the panel + Exterior on the bodywork)
- Mechanized for power cable output
- Door with window to visualize control panel, alarms and measurements
- Pressure locks
- IP Protection according to ISO 8528-13:2016
- 3 way valve for external fuel supply (available in 1/2" and 3/8" fittings) (Optional).
- Fuel transfer pump (Optional).



## FEATURES OF THE CONTROL UNITS

	CEM 7	
<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	●
<b>Mains Readings</b>	Voltage between phases	
	Voltage between phases and neutral	
	Current intensities	
	Frequency	
	Apparent power	
	Active power	
	Reactive power	
Power factor		
<b>Engine Readings</b>	Coolant temperature	●
	Oil pressure	●
	Fuel level (%)	●
	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	●
	Fuel storage	●
	Fuel storage by sensor	●
	Stop failure	●
	Battery voltage failure	●
	Battery charge alternator failure	●
	Overspeed	●
	Underspeed	●
	Start failure	●
	Emergency stop	●

● Standard

⊙ Optional

		CEM 7	
<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	
	RS485	⓪	
	Modbus IP	⓪	
	Modbus	⓪	
	CCLAN	⓪	
	Software for PC	⓪	
	Analogue modem	⓪	
	GSM/GPRS modem	⓪	
	Remote screen	⓪	
	Tele signal	⓪ (8 + 4)	
J1939	⓪		
<b>Features</b>	Alarm history	● (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	●	
	Fuel transfer control	●	
	Engine temperature control	●	
	Manual override	●	
	Programmable alarms	●	
	Genset start function in test mode	●	
	Programmable outputs	●	
	Multilingual	●	
	<b>Special Functions</b>	GPS Positioning	⓪
		Synchronisation	⓪
Mains synchronization		⓪	
Second Zero elimination		⓪	
RAM7		⓪	
Remote screen		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



## Electrical system

- M5 control panel with electronic CEM7 control unit and switched emergency stop
- Power panel with built-in circuit breaker plates
- Safety relay in output terminal board (thermal magnetic trip and alarm in control unit)
- Battery Switch
- Adjustable earth leakage protection (time & sensitivity) standard in M5 and AS5, with thermal magnetic protection
- 4-pole thermal magnetic circuit breaker
- 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)
- Socket boxes with 1x125A (3Ph), 1x63A (3Ph), 2x32A (3Ph) y 1x16A (3Ph)