

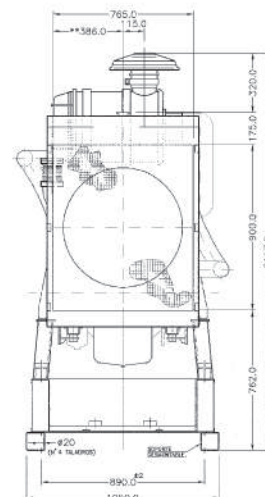
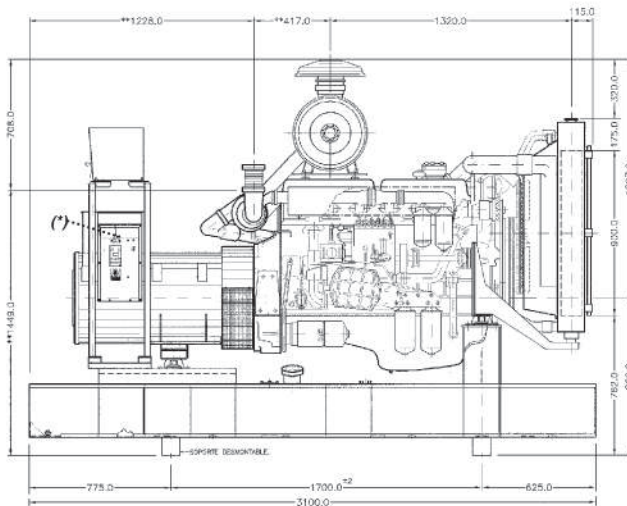
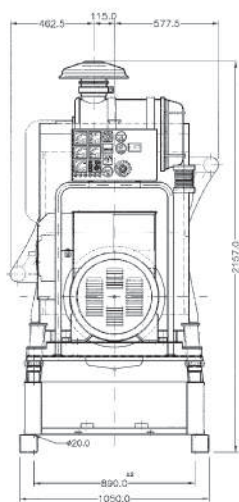
Version
Open skid version

Weight : 2.600 Kg.

Dimensions : 3.100 x 1.155 x 2.160 mm

Fuel tank capacity : 610 Lts.

HIW 250• 265 kVA at 50 Hz - 292 kVA at 60 Hz



(*) : MCCB Shown on front view for display purposes ONLY. Actual location on left lateral view.

GENERATING SET PERFORMANCE		50 Hz		60 Hz	
SERVICE		Max.Standby Power (F.S.P.) ⁽²⁾	Prime Power (P.R.P.) ⁽¹⁾ -(L.T.P.) ⁽³⁾	Max.Standby Power (F.S.P.) ⁽²⁾	Prime Power (P.R.P.) ⁽¹⁾ -(L.T.P.) ⁽³⁾
Rated output	kVA	265	250	292	265
Active power output at 0,8 p.f.	kW	220	200	234	212
Rated speed	r.p.m.	1.500		1.800	
Standard voltage	V	400		440	
Voltage available	V	380/220 to 415/240		220/127 to 480/277	

Ambient reference conditions: 1.000 mbar, 27°C, 30% relative humidity.

* The indicated performance may change according to the alternator model.

PRIME MOVER PERFORMANCE		1.500 r.p.m.		1.800 r.p.m.		
SERVICE		Max.Standby Power (F.S.P.)*	Prime Power (P.R.P.)-(L.T.P.)*	Max.Standby Power (F.S.P.)*	Prime Power (P.R.P.)-(L.T.P.)*	
Rated output	kW	243	221	263	239	
	CV	330	300	357	325	
BMEP	kg/cm²	14,3	13,0	12,9	11,8	
	MPa	1,40	1,28	1,27	1,16	
Mean piston speed	m/s	7,8		9,4		
	ft./sec.	25,6		30,8		
Flywheel housing			SAE 1 / 14"			

Ambient reference conditions: 1.000 mbar, 25°C, 30% relative humidity. Rating according to ISO 3046.

* Net performance at flywheel with tolerance of ± 3% and available after ~ 50 hours running.

(1) Prime Power (P.R.P.) - ISO 8528: prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) Limited Time Running Power (L.T.P.) - ISO 8528: the limited time running power is the maximum power which a generating set is capable of delivering for up to 500 h per year of which a maximum of 300 h is continuous running, between stated maintenance intervals. 10% overload available for governing purposes only.

(3) Max Stand-by power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time:

100% loads 25 h per year - 90% loads 200 h per year

No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Soundproofed
version

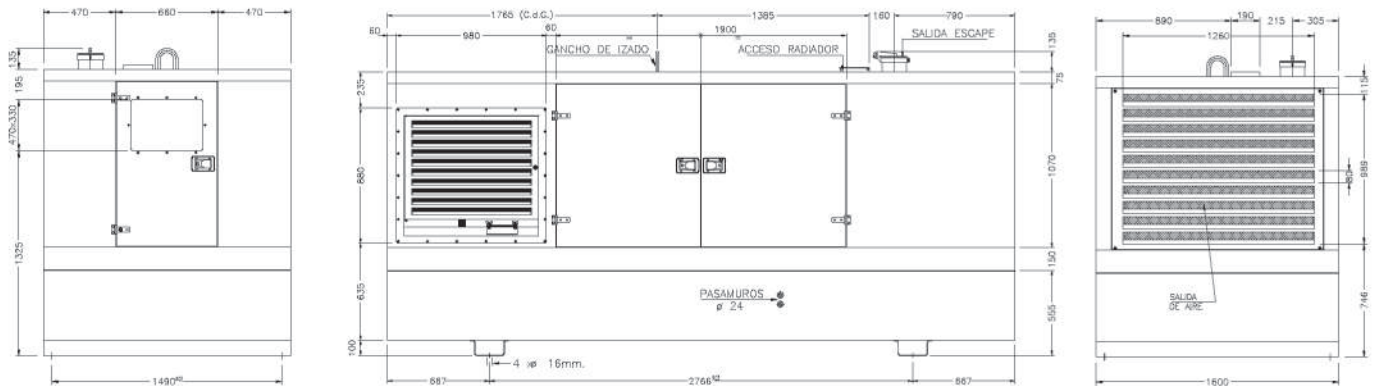
Weight : 3.965 Kg.

Dimensions : 4.100 x 1.600 x 1.985

Fuel tank capacity : 292 Lts.

dB(A) : 65,5

HIW 250• 265 kVA at 50 Hz - 292 kVA at 60 Hz



PRIME MOVER DATA

Manufacturer		IVECO <i>aifo</i>
Model		8210 SRI 25
Diesel 4 stroke - Injection type		direct
Aspiration type		turbocharged aftercooled
Cylindres, number and arrangement		6 in line
Bore x stroke	mm • in	137 x 156 • 5,39 x 6,14
Total displacement	L • In ³	13,8 • 842
Cooling system		liquid coolant
Lube oil specifications		MIL-L2104E (ACEA E3-96)
Specific fuel consumption (prime) ⁴⁾	g/kWh	(50 Hz) 205 • (60 Hz) 217
Specific fuel consumption (at full load)		0,8% max. of fuel consumption
Speed governor	type • class	electronic • A1
Air filter		dry

4) Fuel consumption values (g/kWh), with $\pm 5\%$ tolerance, refer to a run-in engine fed with Diesel fuel having a net calorific value of 42.840 kJ/kg (10.200 kcal/kg)

SYNCHRONOUS GENERATOR *

Poles	Nº	4
Phases	Nº	3 + N
(Standard) winding connections		Star-series
Frame mounting		B 2
Cooling		by ventilating fan
Windings treatment	type	for humid and saline
Insulation	class	H
Damper windings		for parallel
Enclosure (according to IEC 34-5)		IP21
Waveform distortion		no more than 5%
Overexcitation device (option)		per Icc ≥ 3 In
Exciter		brushless exciter design with solid state
Voltage regulator		static electronic design
Steady voltage precision		Within $\pm 1,5\%$ from no load to full with $\cos \phi = 0,8+1$

*Alternators used by HIMOINSA Gensets meet the requirements of following Standards: ISO 8528; IEC 34-1; CEI 2-3; VDE 0530; BS 4999-5000; NF 51-100

* **Ambient reference conditions:** 1.000 mbar, 27°C, 30% relative humidity.

GENERATING SET INSTALLATION DATA

EXHAUST SYSTEM		50 Hz	60 Hz
Max. exhaust temperature at full load (after turbine)	°C	450	410
	°F	842	770
Exhaust gas flow	Kg/h	1.270	1.590
	lb/h	2.794	3.498
Heat rejected to exhaust	kcal/ kWh	640	680
Maximum allowable back pressure	mm H ₂ O	500	
	in H ₂ O	19,6	

ENGINE ROOM AIR REQUIREMENT		50 Hz	60 Hz
Fan air flow	m ³ /s	4,7	6,8
	ft ³ /s	166	240
Air requirement for combustion at 100% load /rated speed	m ³ /h	1.050	1.320
	ft ³ /min	604	760
Heat radiated to ambient (engine) and generator	kcal/ kWh	198	204

COOLING SYSTEM		50 Hz	60 Hz
ATB (without canopy) - nominal rating	°C	50	
	°F	122	
Heat rejected to coolant (water+oil)	kcal / kWh	400	460

ELECTRIC STARTING SYSTEM		
Breakaway current	A	1.670
Cranking motor rating	kW	6,6
Minimum recommended battery capacity	Ah	2 x 155
Auxiliary voltage	Vcc	24

LIQUID CAPACITY (REFILL)		
Lube oil total system including sump, filters etc.	kg	~ 25
	l	~ 27,5
	qts	~ 29
Jacket water engine only	l	~ 36
	qts	~ 38
Oil capacity of standard sump	kg	~ 12
	l	~ 13,2
	qts	~ 14
at minimum level	kg	~ 20
	l	~ 22
	qts	~ 23
at maximum level	kg	~ 20
	l	~ 22
	qts	~ 23

GENERATING SET TRANSPORT DATA

Basic data Open skid genset

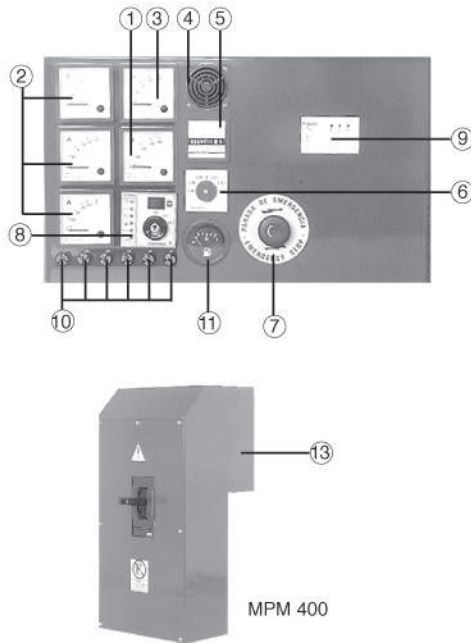
Shipping volume seaworthy packing	m ³	11,8
	ft ³	416,7
Dry weight (with standard accessories)	kg	≈ 2.600
	lb	≈ 5.720

Basic data Soundproofed genset

Shipping volume seaworthy packing	m ³	19,9
	ft ³	702,8
Dry weight (with standard accessories)	kg	≈ 3.965
	lb	≈ 8.723

KEY START CONTROL

Key start control panel for **open skid** version



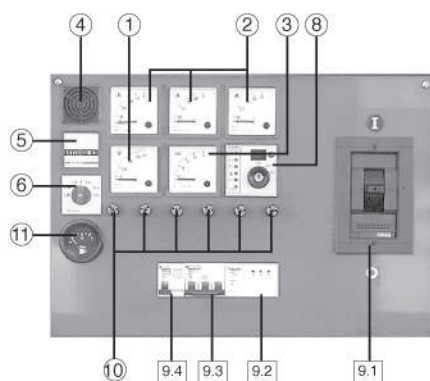
Optional:
24V Gauges, 1 Water Temperature
& 1 Oil Pressure.

“MSE”

(Control panel mounted on supports above alternator) + MPM 400

- 1.- Voltmeter 72x72 (0-500V).
- 2.- 3 Ammeters
- 3.- Frequency meter 45Hz-65Hz 220V.
- 4.- Acoustic alarm 12-24V.
- 5.- Hour meter 230V.
- 6.- Voltmeter selector switch (L1-LN; L2-LN; L3-LN; L1-L2; L2-L3; L3-L1).
- 7.- Emergency stop button.
- 8.- Key start Switchboard 12/24 CTME 01 with overspeed control
- 9.- Electronic differential relay (without retard).
- 10.- Protection fuses (from right to left)
 - 10.1 Protect the electronic regulation
 - 10.2 Protect the electronic switchboard
 - 10.3 Protect the differential relay + coil
 - 10.4 Protect the W Phase
 - 10.5 Protect the V Phase
 - 10.6 Protect the U Phase
- 11.- Fuel level gauge.
- 12.- Speed electronic regulation, in the control panel (only in complete genset supply)
- 13.- Thermal magnetic protection three poles, in moulded case at side of the alternator (MCCB), including maximum coil, toroid and copper bars.

Key start control panel for **soundproofed** version



Optional:
24V Gauges, 1 Water Temperature
& 1 Oil Pressure.

Located on the canopy:

- Output terminal
- Auxiliary plugs
- Emergency stop button

“MHE”

(Control and protection panel fitted inside the canopy and accessible by rear door)

- 1.- Voltmeter 72x72 (0-500V).
- 2.- 3 Ammeters.
- 3.- Frequency meter 45Hz-65Hz 220V.
- 4.- Acoustic alarm 12-24V.
- 5.- Hour meter 230V.
- 6.- Voltmeter selector switch (L1-LN; L2-LN; L3-LN; L1-L2; L2-L3; L3-L1).
- 7.- Emergency stop button.
- 8.- Key start Switchboard 12/24 CTME 01 with overspeed control
- 9.- **Thermal magnetic protections:**
 - 9.1. Thermal magnetic protection three poles, including toroid and maximum coil.
 - 9.2. Electronic differential relay (without retard).
- Secondary protections:**
 - 9.3. Thermal magnetic protection 16 A., 3P, for protected plug of industrial use standard CEI EN 60309-1-2, 3P+N+Ground.
 - 9.4. Magneto thermal differential automatic breaker, 1P, 16A, for protected plug of industrial single phase + ground.
- 10.- Protection fuses (from right to the left)
 - 10.1 Protect the electronic regulation
 - 10.2 Protect the electronic switchboard
 - 10.3 Protect the differential relay + coil
 - 10.4 Protect the U Phase
 - 10.5 Protect the V Phase
 - 10.6 Protect the W Phase
- 11.- Fuel level gauge.
- 12.- Speed electronic regulation, in the control panel (only in complete genset supply)