

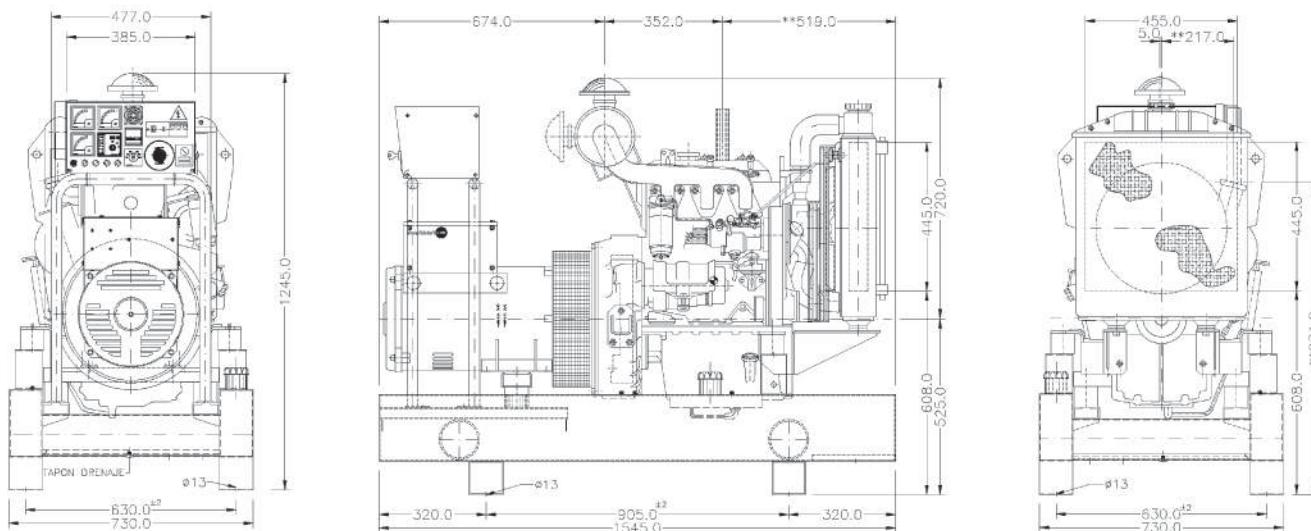
Weight : 705 Kg.

Dimensions : 1.545 x 730 x 1.245 mm

Fuel tank capacity : 67 Lts.

HIW 30 • 33 kVA at 50 Hz - 39 kVA at 60 Hz

Tor



GENERATING SET PERFORMANCE

50 Hz

60 Hz

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.) ^(*)	
	kVA	r.p.m.	kW	V	V	380/220 to 415/240	- 220/127 to 480/277	
Rated output	33		30		39		35	
Active power output at 0,8 p.f.			26		24		31	
Rated speed		1.500				1.800		
Standard voltage			400				440	
Voltage available				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.) [*]	
	kW	CV	kg/cm ²	MPa	m/s	ft./sec.	SAE 3 / 11 ^{1/2}	
Rated output	32	29	8,9	0,87	5,8	18,9	36	33
BMEP							8,4	7,7
Mean piston speed							6,9	
Flywheel housing							22,6	

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

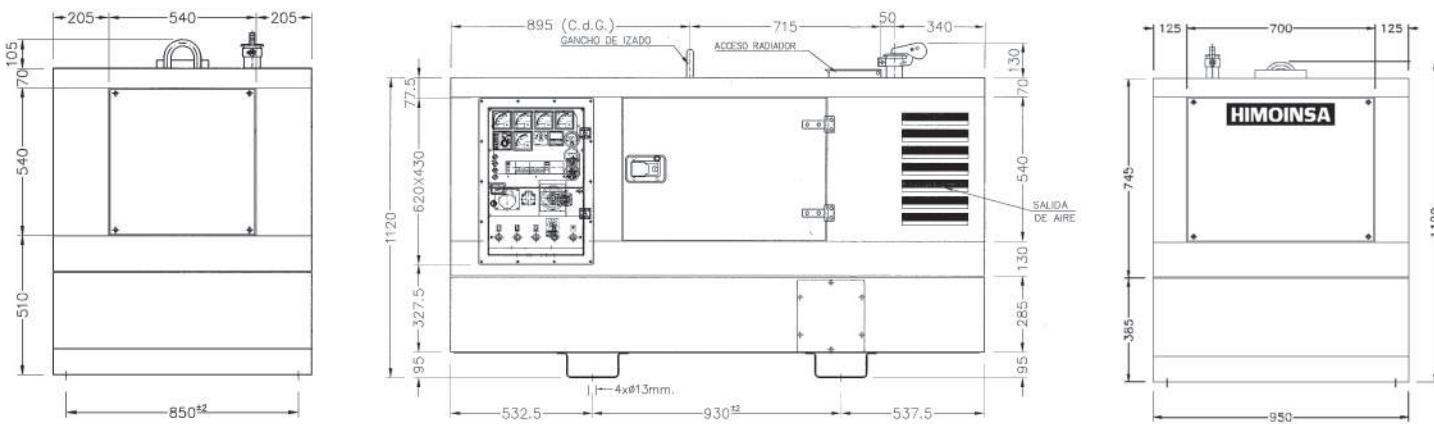
Weight : 1.050 Kg.

Dimensions : 2.000 x 950 x 1.190 mm

Fuel tank capacity : 110 Lts

dB(A) : 63,5

HIW 30 • 33 kVA at 50 Hz - 39 kVA at 60 Hz



PRIME MOVER DATA

Manufacturer	IVECO aifo		
Model	8031 i 06		
Diesel 4 stroke - Injection type	direct		
Aspiration type	naturally aspirated		
Cylndres, number and arrangement	3	in line	
Bore x stroke	mm • in	104 x 115	• 4,09 x 4,53
Total displacement	L • In³	2,9	• 177
Cooling system	liquid coolant		
Lube oil specifications	MIL-L2104E (ACEA E3-96)		
Specific fuel consumption (prime) ⁴⁾	g/kWh	(50 Hz) 225	• (60 Hz) 227
Specific fuel consumption (at full load)	0,8% max.of fuel consumption		
Speed governor	type	mechanical	• 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 climates
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 $\cos \phi=0,8\pm 1$	

*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	°C	530	530
	°F	986	986
Exhaust gas flow	Kg/h	145	175
	lb/h	319	385
Heat rejected to exhaust	kcal/ kWh	640	636
Maximum allowable back pressure	mm H ₂ O	1.500	
	in H ₂ O	59	

ENGINE ROOM AIR REQUIREMENT		50 Hz	60 Hz
Fan air flow	m³/s	0,6	1
	ft³/s	21	35
Air requirement for combustion at 100% load /rated speed	m³/h	120	145
	ft³/min	69	83,5
Heat radiated to ambient (engine and generator)	kcal/ kWh	310	320

COOLING SYSTEM	50 Hz	60 Hz
ATB (without canopy) - nominal rating	°C 50 °F 122	
Heat rejected to coolant (water+oil)	kcal / kWh 595	615

ELECTRIC STARTING SYSTEM

Breakaway current	A	1060
Cranking motor rating	kW	3
Minimum recommended battery capacity	Ah	92
Auxiliary voltage	Vcc	12

LIQUID CAPACITY (REFILL)

GENERATING SET TRANSPORT DATA

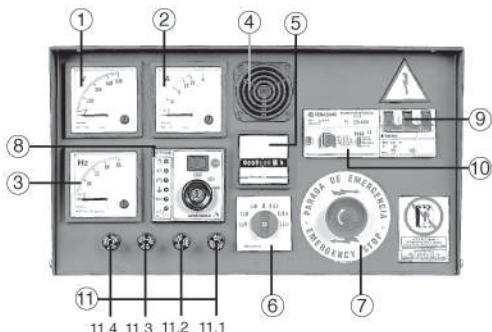
Basic data Open skid genset

Shipping volume seaworthy packing	m ³	3,1
	ft ³	109,5
Dry weight (with standard accessories)	kg	≈ 705
	lb	≈ 1.551

Basic data Soundproofed genset

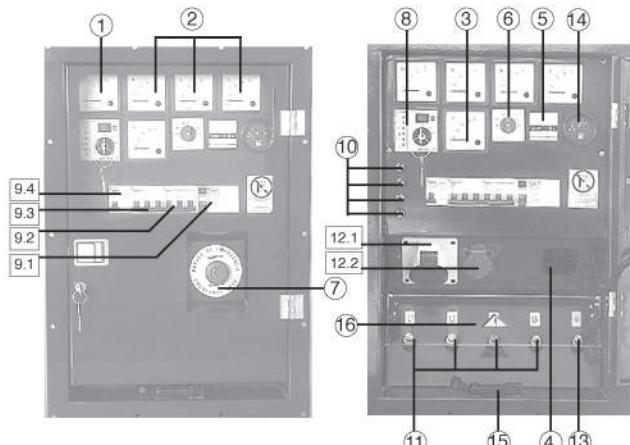
Shipping volume seaworthy packing	m ³	4,3
	ft ³	151,9
Dry weight (with standard accessories)	kg	≈ 1.050
	lb	≈ 2.310

KEY START CONTROL

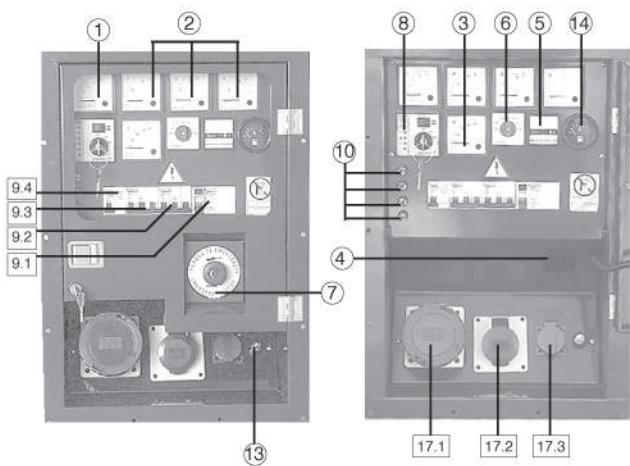
Key start control panel for **open skid** version

“ME”
(Control panel mounted on supports above alternator)

- 1.- Voltmeter 72x72 (0-500V).
- 2.- Ammeter.
- 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 without overspeed control
- 9.- Thermal magnetic protection three poles.
- 10.- Differential 3 Poles + Neutral
- 11.- Protection fuses (from right to left)
 - 11.1 Protect the electronic switchboard
 - 11.2 Protect the W Phase
 - 11.3 Protect the V Phase
 - 11.4 Protect the U Phase

Key start control panel for **soundproofed** version

MC Output terminal

“MC”
(Control and protection panel fitted at canopy lateral side)

- 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 without overspeed control
- 9.- Thermal magnetic protections
 - 9.1. Differential 4P
 - 9.2. Thermal magnetic protection three poles.
- 10.- Protection fuses:
 - 10.1. Protect the electronic switchboard
 - 10.2. Protect the U Phase
 - 10.3. Protect the V Phase
 - 10.4. Protect the W Phase
- 11.- Output terminal
- 12.- Auxiliary plugs.
 - 12.1. 16A Plug, 3P+N+G.
 - 12.2. 16A Shucko plug, 2P+G.
- 13.- Earth connection
- 14.- Fuel level gauge.
- 15.- Flexible lock for fixing cables.
- 16.- Protection plastic glass
- 17.- Output bases and plugs.
 - 17.1 63A base, 3P+N+G
 - 17.2 16A plug, 3P+N+G
 - 17.3 16A Shucko plug, 2P+G

MC Output bases and plugs

OPTIONAL:

12V Gauges, 1 Water Temperature & 1 Oil Pressure.