

IP-145 - PERKINS - 1106A-70TG1

1.500 R.P.M. | 50 Hz

TECHNICAL SPECIFICATIONS



Model:

IP-145

Gen set with manual control panel.

Image for guidance purposes.

ENGINE	MAKE	MODEL
	PERKINS	1106A-70TG1
ALTERNATOR	MODEL	
	MECC-ALTE ECP 34-1L/4	

(400 / 230 V)

CONTINUOUS POWER: (PRP "Prime Power" norma ISO 8528-1)	130 kVA
STAND-BY POWER: (LTP "Limited Time Power" norma ISO 8528-1)	145 kVA

Amperes in the different voltages:

VOLTAGE	HZ	PHASE	COS Ø	PRP KVA/KW	LTP KVA/KW	AMPERAGE
415/240	50	3	0,8	130,0/104,0	143,0/114,4	199,18
400/230	50	3	0,8	130,0/104,0	143,0/114,4	206,65
380/220	50	3	0,8	130,0/104,0	143,0/114,4	217,52
240/139	50	3	0,8	130,0/104,0	143,0/114,4	344,41
230/133	50	3	0,8	130,0/104,0	143,0/114,4	359,39
220/127	50	3	0,8	130,0/104,0	143,0/114,4	375,72

ELECTRO EXIM SRL

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ENGINE CHARACTERISTICS

MAKE	MODEL
PERKINS	1106A-70TG1

GENERAL DATA

Power PRP (kWm)	118.70
Power LTP (kWm)	131.90
No. cylinders	6
Cylinder capacity (L)	7.01
Diameter per stroke (mm)	105 x 135
Compression ratio	18.20
Cooling system	LIQUID
Injection	DIRECT
Suction	TURBO
Series regulator	MECHANICAL
Fly wheel coupling	3-11,5"

Lubrication system

Oil capacity (L)	16.50
Oil consumption (%)	0.10
Min. alarm oil pressure (bar)	-

Ventilation system

Air cooling flow (m3/h)	15120
Combustion air flow (m3/h)	485.40
Max. back pressure for fan (mbar)	-

Exhaust system

Exhaust gas flow (m3/h)	1360
Exhaust back pressure (mbar)	60
Temp. exhaust gases (°C)	576

Electrical system

VDC (V)	12
Battery (Ah)	120
Engine start-up (kW)	4,2

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ALTERNATOR CHARACTERISTICS

MODEL

MECC-ALTE ECP 34-1L/4 (400 / 230 V)

GENERAL DATA

Power PRP (kVA)	130
Power LTP (kVA)	143
Efficiency Alt. 3/4 %	93.20
Efficiency Alt. 4/4 %	92.70
No. Poles	4
Voltage regulator	DSR
No. wires	12
Insulation	H
Xd (%)	214
X'd (%)	17.20
X	6.80
Degree of protection	IP21

GENERATOR SET CONSUMPTION

% POWER USED	LITRES/HOUR
50%	15.90
75%	22.70
100%	30.28

DIMENSIONS, CAPACITIES, APPROXIMATE WEIGHT AND NOISE

LENGTH	DIMENSIONS (MM)	
	WIDTH	HEIGHT
2950	1100	1759
FUEL TANK (LITRES)		WEIGHT (KG)
220		2020.00
NOISE LEVEL (dB (A))		
71 @ 7 m		

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INMESOL GENERATOR SET

GENERAL DESCRIPTION

The "INMESOL" generator set is an electrical energy generating machine which is used in places where there **is no mains supply** or when there is a MAINS failure.

The mobile elements, distribution belt, fan, etc., and those parts which reach high temperatures during operation, exhaust manifold, etc, include their corresponding protections, in compliance with the requirements of the Machinery Directive **2006/42**.

REGULATIONS

The machine holds the "CE" marking, and the corresponding Declaration of Conformity is issued with each of them, in which it specifies that the machine complies with **R.D 842/2002 Low Voltage Regulations and with the European Directives:**

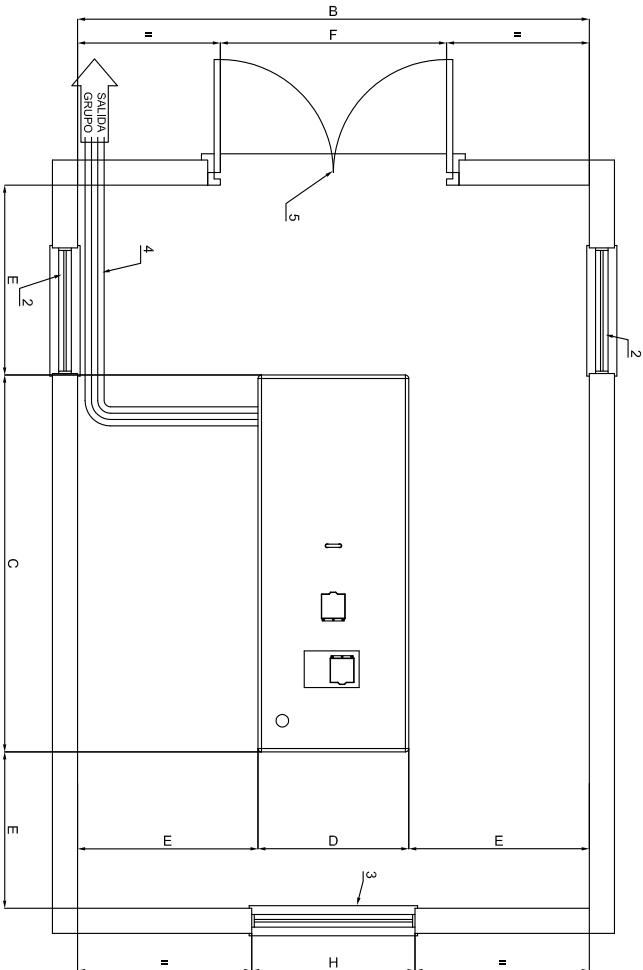
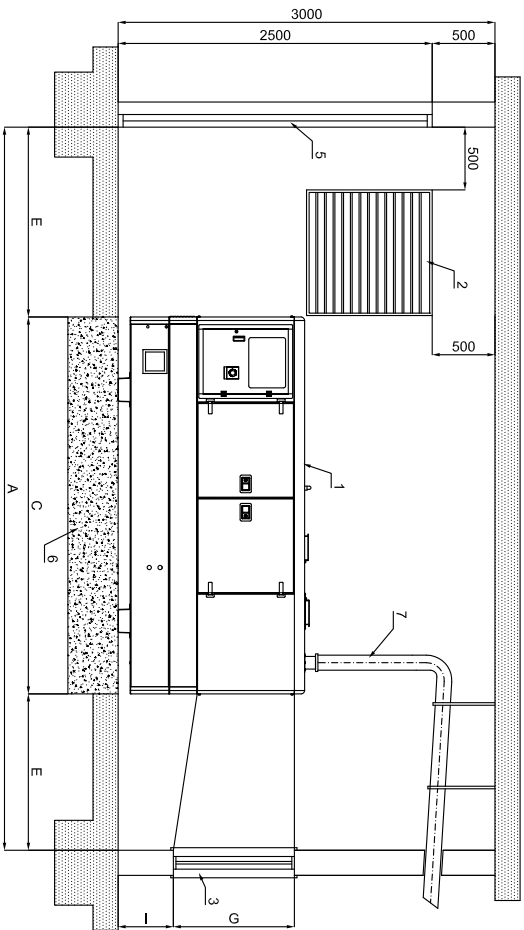
- 2006/42 on Safety in Machinery.
- 2006/95/CE on Electrical Safety.
- 2004/108/CE on Electromagnetic Compatibility.
- 2005/88/CE on NOISE EMISSIONS by equipment for outdoor use (for SOUNDPROOF GENERATOR SETS).

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IN INDUSTRIAL RANGE / SCOPE OF SUPPLY

		
Engine/alternator monobloc directly connected and installed via silent blocks on a frame made from high tensile electro welded steel profiles that are treated with degreasing liquids and aplicated with a phosphate coat and epoxi paint.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Canopy of steel sheet sound proofed with fireproof rockwool, and treated with degreasing liquids and aplicated with a phosphate coat and epoxi paint.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fuel tank integrated in the base frame provided with fuel level jauge and fuel connections to the engine.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Engine with mechanical engine driven pusher fan.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Industrial silencer with -15 db(A) noise reduction and exhaust outlet tube.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Residencial silencer with -35 db(A) noise reduction with exhaust tube and protection cap.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electric control cubicle with control module including protection and reading of electrical meassures engine instrumentation fuel level and engine running hours, etc.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Termal and magnetic circuit breaker and termal and magnetic circuit breaker and earth fault relay.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Battery charge alternator.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Starter battery complete with cables to the engine and pole protection.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Installation prepared for earthing spike (spike not included).	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Security protection for heat and moving parts as well as live electrical components.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
External emergency stop push button.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manual engine oil extraction pump.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Self excited and auto regulated alternator.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Integrated lifting hook for single point lifting with crane, gensets up to 450 kVA (Except in swing-out cover model)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4 Lifting points for gen sets from 450 kVA and bigger.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Preparate for extended fuel tank, fully bomded for leakage protection.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Base frame is prepared for trailer kit installation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Standard electronic speed governor on engines from 220 kVA (LTP) and up.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Horizontal outlet for hot air	<input type="checkbox"/>	<input checked="" type="checkbox"/>



DIMENSIONES MINIMAS DE SALA SEGUN POTENCIA											
POTENCIA (Kva)	A	B	C	D	E	F	G	H	I	PESEO	SECCION HUECO ENTRADA AIRE
8-15 ABATIBLE	3365	2800	1365	800	1000	900	700	850	450		2x0,50 m ²
10-15	3600	2900	1600	900	1000	1100	700	850	450		2x0,50 m ²
20-30	4000	2950	2000	950	1000	1200	750	850	450		2x0,50 m ²
40-60-75	4500	3100	2500	1100	1000	1400	900	1100	450		2x0,90 m ²
85-105-130	5000	3200	3000	1200	1000	1400	900	1100	450		2x1,00 m ²
150-180-200-250	5600	3350	3600	1350	1000	1550	1150	1300	500		2x2,50 m ²
300-400	6200	3600	4200	1600	1000	1800	1250	1600	650		2x3,00 m ²
450-470-500-510-630-650	6800	4000	4800	2000	1000	2200	1300	1800	725		2x3,50 m ²

- NOMENCLATURA**
- 1.- GRUPO ELECTROGENO
 - 2.- HUECO ENTRADA DEL AIRE
 - 3.- TUNEL EXPULSION DEL AIRE
 - 4.- BANDEJA PASACABLES
 - 5.- PUERTA DE ACCESO
 - 6.- BASE HORMIGON ARMADO H-175
 - 7.- TUBO DE ESCAPE

CALCULO ESPESOR LOSA DE HORMIGON

$$E = \frac{W}{d \times D \times C}$$

E = altura bloque de hormigon
 W = peso total grupo electrogeno
 d = densidad del hormigon (2400 kg/m³)
 D = anchura bloque de hormigon (m)
 C = longitud bloque de hormigon (m)

h = 20/100 mm

EL Ø DE LA TUBERIA DE EXTENSION DEL ESCAPE PUEDE SER EL MISMO QUE EL DEL SILENCIADOR HASTA 5 m. PARA DISTANCAS MAYORES DE 5 m. DEBE AUMENTARSE EL Ø DE LA TUBERIA 10 mm POR CADA 10 m MAS DE DISTANCIA ENTRE EL GRUPO ELECTROGENO Y LA SALIDA EXTERIOR

		GRUPO INSONORIZADO	
PROYECTO:			
Una declaración o unificar en apariencia, una obligación de ser responsable de la información que se proporciona en este documento. Toda referencia, directa o indirecta, a los productos y servicios de terceros, no implica la conformidad de NIMESOL con los mismos.	MODIFICADO DIBUJADO COMPROBADO CODIGO PESO ESCALA	A.GUILAR J.GIBELAR J.L.SOLANO	02-Ene-2015 27-Feb-2008 04-Oct-2012
GRUPO INSONORIZADO DIMENSIONES DE SALA		MATERIAL TOLERANCIA GENERAL UDS. EXPEDIENTE:	Nº MOD. Nº PLANO MARCA