

Code:

IKI0066540T3110100M

Rev.:

**25** Years  
**INMESOL** POWER SOLUTIONS  
 1990 / 2015

Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

Genset with manual control panel.



Image for guidance purposes.

ENGINE	MAKE	MODEL
	KOHLER	KDI3404TM
ALTERNATOR	MAKE	MODEL
	MECC-ALTE	ECP32-2M/4B

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

VOLTAGE	HZ	PHASE	COS Ø	PRP KVA/KW	LTP KVA/KW	AMPERAGE (LTP)
400/230	50	3	0,8	62,3/49,9	68,6/54,9	99,17

**INMESOL, S.L.**

Ctra. de Fuente Álamo, 2 · 30153 CORVERA · Murcia · SPAIN

**ESPAÑA**

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)**INTERNATIONAL**

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)[www.inmesol.com](http://www.inmesol.com)

These details shown on this datasheet are intended for guidance only. Inmesol reserves the right to change the details without prior notice. The present documents will not be part of any sales contract.

Code:

IKI0066540T3110100M

Rev.:

**25** Years  
**INMESOL**  
 1990 / 2015  
 POWER SOLUTIONS

Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

## ENGINE CHARACTERISTICS

MAKE	MODEL
KOHLER	KDI3404TM

### GENERAL DATA

Power PRP (kWm)	55.40
Power LTP (kWm)	61.00
No. cylinders	4
Cylinder capacity (L)	3.359
Diameter per stroke (mm)	96 x 116
Compression ratio	-
Cooling system	LIQUID
Injection	DIRECT
Suction	TURBO
Series regulator	MECHANICAL
Fly wheel coupling	3-11,5"

### Lubrication system

Oil capacity (L)	15.60
Oil consumption (%)	0.10
Min. alarm oil pressure (bar)	-

### Ventilation system

Air cooling flow (m3/h)	6120
Combustion air flow (m3/h)	331.00
Max. back pressure for fan (mbar)	-

### Exhaust system

Exhaust gas flow (m3/h)	291
Exhaust back pressure (mbar)	90
Temp. exhaust gases (°C)	650

### Electrical system

VDC (V)	12
Battery (Ah)	90
Engine start-up (kW)	-



INMESOL, S.L.

Ctra. de Fuente Álamo, 2 · 30153 CORVERA - Murcia · SPAIN



ESPAÑA

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)

INTERNATIONAL

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)[www.inmesol.com](http://www.inmesol.com)

Code:

IKI0066540T3110100M

Rev.:

**25** Years **INMESOL** POWER SOLUTIONS  
1990 / 2015

Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

## ALTERNATOR CHARACTERISTICS

MAKE	MODEL
MECC-ALTE	ECP32-2M/4B

### GENERAL DATA

Power PRP (kVA)	63.00
Power LTP (kVA)	71.00
Efficiency Alt. 3/4 %	90.50
Efficiency Alt. 4/4 %	90.00
No. Poles	4
Voltage regulator	DSR
No. wires	12
Insulation	H
Xd (%)	293.10
X'd (%)	14.60
X	8.57
Degree of protection	IP23

## GENERATOR SET CONSUMPTION

% POWER USED	LITRES/HOUR
50%	8.20
75%	11.50
100%	14.60

## DIMENSIONS, CAPACITIES, APPROXIMATE WEIGHT

DIMENSIONS (MM)		
LENGTH	WIDTH	HEIGHT
2500	1100	1455

FUEL TANK (LITRES)	WEIGHT (KG)
85	1300

NOISE LEVEL (dB (A))
64dB(A)@7m



INMESOL, S.L.

Ctra. de Fuente Álamo, 2 · 30153 CORVERA - Murcia · SPAIN



ESPAÑA

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)

INTERNATIONAL

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)[www.inmesol.com](http://www.inmesol.com)

Code:

IKI0066540T3110100M

Rev.:



Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

## 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).



INMESOL, S.L.

Ctra. de Fuente Álamo, 2 · 30153 CORVERA - Murcia · SPAIN



ESPAÑA

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)

INTERNATIONAL

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)[www.inmesol.com](http://www.inmesol.com)

Code:

**IKI0066540T3110100M**

Rev.:

**25** Years  
**INMESOL**  
POWER SOLUTIONS  
1990 / 2015

Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

**IN**

## SCOPE OF SUPPLY

### INDUSTRIAL RANGE



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 polyester (QUALICOAT) paint.

Canopy of steel sheet sound proofed with fireproof rockwool, and treated with degreasing liquids and aplicated with a phosphate coat and polyester (QUALICOAT) paint.

Fuel tank integrated in the base frame provided with fuel level gauge and fuel connections to the engine.

Engine with mechanical engine driven pusher fan.

Residencial silencer with -35 db(A) noise reduction with exhaust tube and protection cap.

Electric control cubicle with control module including protection and reading of electrical meassures engine instrumentation fuel level and engine running hours, etc.

Termal and magnetic circuit breaker and termal and magnetic circuit breaker and earth fault relay.

Battery charge alternator.

Starter battery complete with cables to the engine and pole protection.

Installation prepared for earthing spike (spike not included).

Security protection for heat and moving parts as well as live electrical components.

External emergency stop push button.

Manual engine oil extraction pump.

Self excited and auto regulated alternator.

Integrated lifting hook for single point lifting with crane, gensets up to 450 kVA (Except in swing-out cover model)

Preparate for extended fuel tank, fully bomded for leakage protection.

Base frame is prepared for trailer kit installation.

Standard electronic speed governor on engines from 220 kVA (LTP) and up.

Horizontal outlet for hot air

## OPTIONS

Battery charger

Coolant preheating

AMF/ATS panel to turn a manual gen set to automatic version (consult the last page)



**INMESOL, S.L.**

Ctra. de Fuente Álamo, 2 · 30153 CORVERA · Murcia · SPAIN



ESPAÑA

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)

INTERNATIONAL

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)

[www.inmesol.com](http://www.inmesol.com)

Code:

IKI0066540T31 10100M

Rev.:

**25** Years **INMESOL** POWER SOLUTIONS  
1990 / 2015

Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

**DSE 3110 MANUAL CONTROL PANEL**

MANUAL CONTROL, PROTECTION AND DISTRIBUTION panel, assembled on the generator set in metal cabinet with a DSE 3110 engine protection unit.



Image for guidance purposes.

It has the following:

**1 STARTER SWITCH****2 EMERGENCY STOP PUSHBUTTON****3 MEASURING INSTRUMENTS:**

- Analogue ammeters
- Analogue voltmeter
- Fuel level indicator.
- Digital Hz display and hour meter (DSE 3110)



INMESOL, S.L.

Ctra. de Fuente Álamo, 2 · 30153 CORVERA - Murcia · SPAIN



ESPAÑA

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)

INTERNATIONAL

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)[www.inmesol.com](http://www.inmesol.com)

Code:

IKI0066540T3110100M

Rev.:



Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

**DSE 3110 MANUAL CONTROL PANEL****4****SET CONTROL AND ENGINE PROTECTION: DSE 3110, allows:**

- START AND STOP the set MANUALLY.
- Possibility of doing it AUTOMATICALLY via START ON SIGNAL
- Digital readings of the operating hours and the Frequency
- Controls the main characteristics of the engine, causing an alarm or stopping the machine:
  1. Low and High Voltage (STOP)
  2. Low and High Frequency and Speed (STOP)
  3. Low Oil Pressure and High Coolant Temperature (STOP)
  4. Failure of the Alternator Battery-Charger (ALARM)
  5. Low fuel level (ALARM)

**5**

MAGNETO. PROTECTION (A)

EARTH LEAK PROTECTION

DISTRIBUTION

100A, 4P

Electronic, adjustable

CEE5P125A+CEE5P16A+S  
chuko

INMESOL, S.L.

Ctra. de Fuente Álamo, 2 · 30153 CORVERA · Murcia · SPAIN



ESPAÑA

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)

INTERNATIONAL

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)[www.inmesol.com](http://www.inmesol.com)

Code:

IKI0066540T3110100M

Rev.:

**25** Years  
**INMESOL** POWER SOLUTIONS  
1990 / 2015

Model: IK-066 - INDUSTRIAL RANGE

400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

## DSE 3110 MANUAL CONTROL PANEL

### 6 OPTIONAL:

#### AUTOMATIC PANEL FOR MANUAL GENERATOR: ATS DSE 334

- This panel provides the manual control generator with a reserve operation from the Mains, as the ATS sends the command to start and stop the generator, when it detects a supply failure and when the Mains is restored.



Cubicle composed of the electronic control module which is detecting a mains failure and of 2 contactors mechanically and electrically interlocked or a motorized switch controlled by the above electronic controller who are realizing the change of supply from the GEN SET or the MAINS to the load.



INMESOL, S.L.

Ctra. de Fuente Álamo, 2 · 30153 CORVERA · Murcia · SPAIN



ESPAÑA

Teléfono: +34 968 380 129

Fax: +34 968 380 504

E-mail: [ventas@inmesol.com](mailto:ventas@inmesol.com)

INTERNATIONAL

Phone: +34 968 380 879

Fax: +34 968 380 400

E-mail: [sales@inmesol.com](mailto:sales@inmesol.com)

[www.inmesol.com](http://www.inmesol.com)