

Model: IK-18 - STAND-BY RANGE

230 V - SINGLE-PHASE | 1.500 R.P.M. | 50 Hz

Automatic with amf/ats panel Stand-by Genset V2.



Image for guidance purposes.

PRP

CONTINUOUS POWER: 16 kVA

PRP "Prime Power" norma ISO 8528-1

LTP

STAND-BY POWER: 18 kVA

LTP "Limited Time Power" norma ISO 8528-1

ENGINE

MAKE	MODEL
KOHLER	KDI1903M

ALTERNATOR

MAKE	MODEL
SINCRO	SK 160 LA1

VOLTAGE	HZ	PHASE	COS Ø	PRP kVA/kW	LTP kVA/kW	AMP. (LTP)
230	50	1	1	15,6/15,6	17,2/17,2	74,6

ELECTRO EXIM SRL

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21 Ialomicioarei St., sector 1, code 011277, BUCHAREST - ROMANIA
Phone: 0040 21 2231347 - 0040 744 755 390 - FAX: 0040 21 2231201
E-mail: office@electroexim.com - Web: www.electroexim.ro

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ENGINE CHARACTERISTICS

MAKE	MODEL
KOHLER	KDI1903M

General Data

Power PRP (kWm)	17.30
Power LTP (kWm)	19.00
No. cylinders	3
Cylinder capacity (L)	1.861
Diameter per stroke (mm)	88 x 102
Compression ratio	-
Cooling system	LIQUID
Injection	DIRECT
Suction	NATURAL
Series regulator	MECHANICAL
Fly wheel coupling	4 - 7,5"

Lubrication system

Oil capacity (L)	8.90
Oil consumption (%)	0.10
Min. alarm oil pressure (bar)	-

Ventilation system

Air cooling flow (m ³ /h)	1700
Combustion air flow (m ³ /h)	98.40
Max. back pressure for fan (mbar)	-

Exhaust system

Exhaust gas flow (m ³ /h)	-
Exhaust back pressure (mbar)	50
Temp. exhaust gases (°C)	540

Electrical system

VDC (V)	12
Battery (Ah)	60
Engine start-up (kW)	-

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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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SB **STAND-BY**
RANGE

Scope of supply

V2 **Gensets WITH AMF/ATS PANEL and 4 Pole Circuit Breaker**

V2



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 applied with a phosphate coat and Polyester (QUALICOAT) paint.
Canopy of steel sheet sound proofed with fireproof rockwool, and treated with degreasing liquids and applied with a phosphate coat and Polyester (QUALICOAT) paint.
Sealed chassis
Fuel tank integrated in the chassis provided with fuel level gauge and fuel lines to the engine.
Engine with mechanical engine driven pusher fan.
Residential silencer with -35 db(a) noise reduction with exhaust tube and protection cap.
Thermal and magnetic circuit breaker
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 belts and moving parts as well as on electrical component.

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 mode)
Base frame prepared for trailer kit
Standard electronic speed governor on engines from 220 kVA and up.
Electric control cubicle with digital control module, automatic mains failure, manual start or remote start on signal with change over switch in the same cabinet.
Battery charger for gen set with 12VCC battery (2A).
Battery charger for gen set with 24VCC battery (5A).
Electric engine coolant preheating on gen sets with automatic mains failure controller.
Horizontal outlet for hot air (till canopy 4200x1600x2245)
Control cable of 6 m

OPTIONS

Earth fault relay
Integral additional socket panel (from 20 kVA till 400 kVA PRP)
Residential silencer

V1 PREWIRED VERSION FOR AMF

V2 GENSETS WITH AMF/ATS PANEL AND 4 POLE CIRCUIT BREAKER

V3 GENSET WITH AMF CONTROL PANEL BUT WITHOUT ATS PANEL AND SEPARATED ATS PANEL

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DSE 6020 MKII AUTOMATIC CONTROL PANEL WITH AMF/ATS PANEL

V2

PROTECTION, DISTRIBUTION AND AUTOMATIC CONTROL panel which starts the generator set when it detects a mains failure and stops it when the mains is restored with the control unit DSE 6020 MKII. It also starts and stops the group manually via a pushbutton or remote start-up by contact. It incorporates change over switch. The entire assembly is in a steel enclosure separated from the gen set.



Image for guidance purposes.

It has the following:

1. EMERGENCY STOP PUSHBUTTON

2. PROTECTIONS:

Magnetothermal switch (preheating resist.) 2P (16 A)

Protection fuses for control module

3. BATTERY CHARGER

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4. DSE 6020 MKII PROTECTION CONTROL MODULE.

LCD SCREEN:

It has a digital LCD screen, which provides easy reading of the information regarding the ENGINE, ALTERNATOR, MAINS and CHARGING.

ENGINE:	ALTERNATOR AND CHARGE:	MAINS:
Coolant temperature	Voltages between phases and between phases and neutral.	Frequency
Oil pressure	Intensities	Voltages between phases and neutral (L1-N, L2-N, L3-N).
Turning speed (rpm)	Frequency	Voltages between phases and (L1-L2, L2-L3, L1-L3).
Fuel level	Active Power (kW)	Active Power (kW)
Battery voltage	Reactive Power (kVAr)	Reactive Power (kVAr)
Battery alternator voltage.	Apparent Power (kVA)	Apparent Power (kVA)
Operating hours	Cos phi	Cos phi
Number of start-ups	Active energy meter (kW-h)	

CONTROL OF THE SET:

STARTS and STOPS the set AUTOMATICALLY when mains failure is detected and when it is restored, respectively.

It can also operate MANUALLY a REMOTE STAR.

Breaker control via fascia buttons.

PROTECTION OF THE ENGINE AND ALTERNATOR, WITH THE ALARMS ACTIVATED:

ENGINE:	ALTERNATOR:	MAINS:
Low oil pressure	Low and High Voltage	Low and High Voltage
High coolant temperature	Low and High Frequency	Low and High Frequency
Low and High battery Voltage.	Overload due to Intensity (A)	
Failure of the alternator to charge batteries	Power Overload (KW)	
Low fuel level		
Engine maintenance alarms for fuel filter, air filter and oil filter		

OTHER CHARACTERISTICS:

The real-time clock provides an exact record of events.	USB connectivity	Programmable clock with multiple maintenance events which can be configured for optimal motor functioning. Weekly and/or monthly programming for up to 8 startups and shutdowns per week.
Extensive number of configurable inputs and outputs.	Fully configurable via software and PC.	ALTERNATIVE CONFIGURATIONS, which open up the working possibilities
Configurable alarms and timers.	Communication via USB cable for remote control	

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5. PROTECTIONS

MAGNETO. PROTECTION (A)	EARTH LEAK PROTECTION	DISTRIBUTION	AMF/ATS PANEL
100A, 2P	Opcional	Direct from circuit breaker	90

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