

**AP-550 - PERKINS - 2506A-E15TAG2**

**1.500 R.P.M. | 50 Hz**

## TECHNICAL SPECIFICATIONS



Model:

**AP-550**

Gen set with manual control panel.

Image for guidance purposes.

**(400 / 230 V)**

ENGINE	MAKE	MODEL
	PERKINS	2506A-E15TAG 2
ALTERNATOR	MODEL	
	MECC-ALTE ECO 40-3SN / 4	

CONTINUOUS POWER:  
(PRP "Prime Power" norma ISO 8528-1) **500 kVA**

STAND-BY POWER:  
(LTP "Limited Time Power" norma ISO 8528-1) **550 kVA**

### Amperes in the different voltages:

VOLTAGE	HZ	PHASE	COS Ø	PRP KVA/KW	LTP KVA/KW	AMPERAGE
415/240	50	3	0,8	500,0/400,0	550,0/440,0	766,07
400/230	50	3	0,8	500,0/400,0	550,0/440,0	794,8
380/220	50	3	0,8	500,0/400,0	550,0/440,0	836,63
240/139	50	3	0,8	500,0/400,0	550,0/440,0	1324,66
230/133	50	3	0,8	500,0/400,0	550,0/440,0	1382,26
220/127	50	3	0,8	500,0/400,0	550,0/440,0	1445,09

**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
PERKINS	2506A-E15TAG2

### GENERAL DATA

Power PRP (kWm)	435.00
Power LTP (kWm)	478.00
No. cylinders	6
Cylinder capacity (L)	15.20
Diameter per stroke (mm)	137 x 171
Compression ratio	16.10
Cooling system	LIQUID
Injection	DIRECT
Suction	TURBO-INTERC.
Series regulator	ELECTRONIC
Fly wheel coupling	1/2-14"

### Lubrication system

Oil capacity (L)	62.00
Oil consumption (%)	0.10
Min. alarm oil pressure (bar)	-

### Ventilation system

Air cooling flow (m3/h)	39600
Combustion air flow (m3/h)	2196.00
Max. back pressure for fan (mbar)	-

### Exhaust system

Exhaust gas flow (m3/h)	5880
Exhaust back pressure (mbar)	68
Temp. exhaust gases (°C)	550

### Electrical system

VDC (V)	24
Battery (Ah)	2 x 180
Engine start-up (kW)	7,5

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## ALTERNATOR CHARACTERISTICS

### MODEL

MECC-ALTE ECO 40-3SN / 4 (400 / 230 V)

### GENERAL DATA

Power PRP (kVA)	500
Power LTP (kVA)	550.00
Efficiency Alt. 3/4 %	94.80
Efficiency Alt. 4/4 %	94.60
No. Poles	4
Voltage regulator	DER-1
No. wires	12
Insulation	H
Xd (%)	250.00
X'd (%)	21.00
X	11.40
Degree of protection	IP21

## GENERATOR SET CONSUMPTION

% POWER USED	LITRES/HOUR
50%	53.00
75%	76.00
100%	100.00

## DIMENSIONS, CAPACITIES, APPROXIMATE WEIGHT AND NOISE

LENGTH	DIMENSIONS (MM)	
	WIDTH	HEIGHT
3500	1300	2097
FUEL TANK (LITRES)		WEIGHT (KG)
558		3560.00
NOISE LEVEL (dB (A))		

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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"/>

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## DSE 3110 MANUAL CONTROL PANEL

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



It has the following:

Image for guidance purposes.

**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)

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## 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 PROTECTIONS:

- Magnetothermal Protections
- Earth Leak Protection
- Protection fuses for control module

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**DSE 3110 MANUAL CONTROL PANEL**

For OPEN sets - Three-phase generators (single phase by request):

CONT . POW.	MAGNETO. PROTECTION (A)	EARTH LEAK PROTECTION	DISTRIBUTION
SET POWER	10 kVA	4P, 16A (B) 1P+N 16 A (C)	Mod. 16A, 300 mA 1 BASE CEE 3P+N+T 16A 1 BASE CEE 2P+T 16 A
	15 kVA	4P, 25A (B) 1P+N 16 A (C)	Mod. 25A, 300 mA 1 BASE CEE 3P+N+T 32A 1 BASE CEE 2P+T 16 A
	20 kVA	4P, 32A (B)	Mod. 32 A, 300 mA POWER TERMINALS
	30 kVA	4P, 50 A (B)	Mod. 63 A, 300 mA POWER TERMINALS
	40 kVA	4P, 63 A (B)	Mod. 63 A, 300 mA POWER TERMINALS
	50 kVA	4P, 80 A (B)	Electronic adjustable POWER TERMINALS
	60 kVA	4P, 100 A (B)	Electronic adjustable POWER TERMINALS
	75-80 kVA	4P, 125 A (B)	Electronic adjustable POWER TERMINALS
	100 kVA	3P, 160 A (B)	Electronic adjustable POWER TERMINALS
	125-170 kVA	3P, 250 A (B)	Electronic adjustable POWER TERMINALS
	180-275 kVA	3P, 400 A (B)	Electronic adjustable OUTPUT DIRECTLY FROM THE CIRCUIT BREAKER
	300-430 kVA	3P, 630 A (B)	Electronic adjustable OUTPUT DIRECTLY FROM THE CIRCUIT BREAKER
	450-550 kVA	3P, 800 A (B)	Electronic adjustable OUTPUT DIRECTLY FROM THE CIRCUIT BREAKER
	570-665 kVA	3P, 1000 A (B)	Electronic adjustable OUTPUT DIRECTLY FROM THE CIRCUIT BREAKER



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## 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.