

**DATA SHEET** **MODEL**

**70104110**



**kVA** PRIME      **kVA** STAND-BY

100 kVA

110 kVA

**T** PHASES      **V** VOLTAGE

THREE-PHASE

400 V

 COOLED       GAS

WATER

DIESEL

 RPM      **Hz** Hz

1500 RPM

50 Hz

**MOTOR**

DEUTZ

**ALTERNATOR**

MECCALTE



**POWER**



The image is orientative

**DATA SHEET**

**MODEL**

**70104110**

<b>kVA</b>	<b>PRIME</b>	<b>100 kVA</b>
<b>kVA</b>	<b>STAND-BY</b>	<b>110 kVA</b>
<b>T</b>	<b>THREE-PHASE</b>	
<b>V</b>	<b>VOLTAGE</b>	<b>400 V</b>
<b>Hz</b>	<b>50 Hz</b>	
<b>RPM</b>	<b>RPM</b>	<b>1500 RPM</b>
<b>COOLED</b>	<b>COOLED</b>	<b>WATER</b>
<b>GAS</b>	<b>GAS</b>	<b>DIESEL</b>
<b>SOUNDPROOF</b>	<b>SOUNDPROOF</b>	

<b>MOTOR</b>	<b>MODEL</b>	<b>ALTERNATOR</b>	<b>MODEL</b>
<b>DEUTZ</b>	<b>BF4M1013 ECG</b>	<b>MECCALTE</b>	<b>ECP34-2S/4</b>

<b>ENGINE DATA SHEET</b>		
Manufacturer's brand		DEUTZ
<b>Model</b>		<b>BF4M1013 ECG</b>
Power	kVA	138,68/102,0
Power data according to standards		ISO 14396
<b>Rated speed</b>	<b>r.p.m.</b>	<b>1500</b>
Total displacement	liters	4,76
N° of cylinders		4 en línea
Bore x stroke	mm	108 x 130
Compression ratio		17:1
<b>COOLING SYSTEM</b>		
Cooling type		Liquid
Max. environment temperature for radiator	°C	50
Cooling air flow	m3/h	6100
Engine coolant volume	liters	7,4
Whole system coolant volume	liters	19,7
Coolant irradiated heat	kW	52,5
Heat exchanger	kW	13,1
Heat emitted by radiation motor surfaces	kW	10,0
<b>AIR INTAKE SYSTEM</b>		
Air intake type		Turbo aftercooler
Air filter type		Radial
Air intake max. flow (air 1,2 kg/m3)	m3/h	365,3
Heat exchanger charge air / water		Yes
<b>LUBRICATION SYSTEM</b>		
Max oil quantity including filter	liters	11
Oil change hours interval	Hours	500

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**POWER**

Minimum oil specs	TR0199-99-1217
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Factory fill oil viscosity (SAE)	15W40
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**FUEL SYSTEM**

Governor and injection type	Direct and mechanical
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Fuel consumption at 100% of load	liters/hour	23,44
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Fuel consumption at 75% of load	liters/hour	17,5
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Fuel consumption at 50% of load	liters/hour	11,83
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**EXHAUST SYSTEM**

Exhaust gas max. temperature	°C	560
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Exhaust gas flow	kg/h	1102
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Max. back pressure exhaust gases	kPa	25
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**ELECTRICAL SYSTEM**

Battery charging system	Alternador - 55A
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Batteries specs	V/Ah/CCA	1x12/143/900
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**Model****COMAP InteliNano PLUS****VALUES DISPLAYED ON THE SCREEN**

Generator parameters	U1-U3, I1, Hz
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Battery voltage	●
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Gen set operating hours	●
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Analogic oil pressure	Consult us
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Engine coolant temperature	Consult us
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Engine r.p.m.s	Consult us
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Fuel level	Consult us
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**MESSAGES DISPLAYED**

Parameters configuration and times programming	●
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Alarms	●
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**ALARMS**

Starting fault (Shutdown)	●
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Low oil pressure (Shutdown)	●
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Water high temperature (Shutdown)	●
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Overspeed (Shutdown)	●
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Emergency shutdown mushroom activated (Shutdown)	●
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Generator overload (Shutdown)	●
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Generator short circuit (Shutdown)	●
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Generator overload (Shutdown)	●
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Generator frequency out of range (Shutdown)	●
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Low battery voltage/broken charging alternator belt	●
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Low fuel level	●
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Low battery voltage (Warning)	●
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Optional alarms (Warning/Shutdown)	●
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Voltages assymetry (Shutdown)	●
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Currents assymetry (Shutdown)	●
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**CONTROL, PROTECTION AND INDICATION IN ELECTRICAL PANELBOARD**

Overcurrent protection	Circuit Breaker + Controller
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Earth leakage protection	Electronic relay
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Emergency shutdown mushroom pushbutton	Included
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Motorized breaker (consult the possibility of contactor)	Optional. Included in "Parallel" version
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**POWER**

**SPECIAL EQUIPMENT FOR "STANDBY (AMF)" VERSION**

Battery charger	Included in STANDBY Version (AMF)
Coolant heater resistance	Included in STANDBY Version (AMF)
MAINS-GENSET switching cabinet	Optional

**PARALLEL CONNECTION FOR "PARALLEL" VERSION COMAP IntelliCompact NT MINT**

Optimisation of running engines depending on the current load	●
Automatic synchronizing and load sharing	●
Voltage and power factor regulation (AVR)	●
Active and reactive power distribution	●

**ALTERNATOR DATA SHEET**

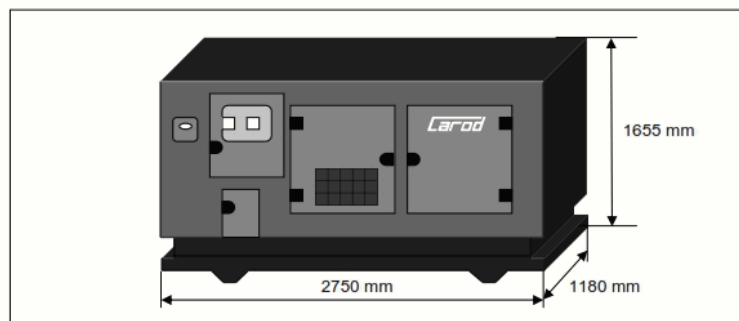
Manufacturer's brand	MECCALTE	
<b>Model</b>	<b>ECP34-2S/4</b>	
<b>Frequency</b>	<b>Hz</b>	<b>50</b>
Rated voltage	V	400
Connection type	Star-serie	
N° of phases	3	
N° of poles	4	
<b>Power ^T= 125 °C, 40°C PRIME</b>	<b>kVA</b>	<b>105</b>
<b>Power ^T= 163 °C, 27°C STANDBY</b>	<b>116</b>	
Power factor	0,8	
Isolation Class / ^Temp	H/H	
Protection grade	IP21	
Short circuit current (for 20sec.)	3 In	
Voltage regulator	Electronic-AVR	

Advice note: Manufacturer and model are default values. They may vary depending on availability, always with similar specs.

**LOGISTICAL DATA**

Approximate weight with coolant and oil	kg	1650
Volume of fuel in tank	liters	277

**MEASUREMENTS**





## POWER

### MOUNTING BASEFRAME

Electrically welded frame, made in folded steel sheet, painted with phosphated, priming and powder coating, which guarantees a great endurance in environments with high dampness, aggressive atmospheres and presence of the most common pollutants.

Fitted on ohmegashaped legs for supporting and hoisting.

Silentblocks to isolate linear vibration of the generatorengine pack.

Metallic fuel tank, integrated in the frame with fuel level sensor, filling cup with breather and key-lock outside the genset.

### ENCLOSURE

Sound attenuated, weather protective enclosure, made in folded steel sheet and electrically welded. Painting with phosphated, priming and powder coating, which guarantees a great endurance in environments with high dampness, aggressive atmospheres and presence of the most common pollutants. The cabin is soundproofed with fireproof high density fiberglass wool, M0 degree, according to UNEEN13162:2002.

Access doors for maintenance and inspection with key-lockable pressure latches.

Includes hoisting ringbolt.

### ENGINE

4 stroke engine, liquid cooled (50% ethylene glycol coolant) with guarded radiator, governed at 1.500 r.p.m.

### AIR INTAKE

Radial, dry type air filter with optic clogged air filter indicator.

### EXHAUST

High attenuation residential type muffler integrated inside the enclosure. Exhaust exit protected with a steel muffler pipe rain cup. Engine vent gases are channelled outside the genset across the cooling fan.

### ALTERNATOR

Brushless, self excited, 4 poles alternator with  $\pm 1,5\%$  voltage accuracy at constant load.

At any power factor with speed variation of 5% to 30% from its rated speed.

### ELECTRICAL PANELBOARD

Installed in a folded steel sheet enclosure, mounted on metallic legs, fitted to the baseplate, both of them painted with phosphated, priming and powder coating. Controller panel equippe dwith parameters, configurations and alarms indication on display.

Earth leakage protection by means of electronic relay. Overcurrents protection by means of circuit breaker.

For any other option of equipment and configuration: Contact CD Power.