

**DATA SHEET**

**MODEL**

70104042



**kVA** PRIME      **kVA** STAND-BY

40 kVA

42 kVA

**T** PHASES      **V** VOLTAGE

THREE-PHASE

400 V

**OIL** COOLED      **GAS**

WATER

DIESEL

**RPM** RPM      **Hz** Hz

1500 RPM

50 Hz

**MOTOR**

DEUTZ

**ALTERNATOR**

MECCALTE



**POWER**



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**70104042**

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<b>kVA</b>	<b>STAND-BY</b>	<b>42 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>BF4M2011</b>	<b>MECCALTE</b>	<b>ECP32-3S/4</b>

<b>ENGINE DATA SHEET</b>		
Manufacturer's brand		DEUTZ
<b>Model</b>		<b>BF4M2011</b>
Power	kVA	55,25/41,2
Power data according to standards		ISO 8528
<b>Rated speed</b>	<b>r.p.m.</b>	<b>1500</b>
Total displacement	liters	3,109
N° of cylinders		4 en línea
Bore x stroke	mm	94 x 112
Compression ratio		18,1:1
<b>COOLING SYSTEM</b>		
Cooling type		Oil
Cooling air flow	m3/h	2370
Oil max. temperature	°C	50
Engine coolant volume	liters	N.A.
Whole system coolant volume	liters	N.A.
Max. allowed temperature for alarm	°C	130
Max. temperature allowed for stop	°C	135
Thermostat opening temperature	°C	95-110
<b>AIR INTAKE SYSTEM</b>		
Air intake type		Natural
Air filter type		Radial / dry
Air intake max. flow (air 1,2 kg/m3)	m3/h	168
<b>LUBRICATION SYSTEM</b>		
Max oil quantity including filter	liters	10
Minimum oil specs		TR0199-99-1217
Factory fill oil viscosity (SAE)		15W40

**POWER****FUEL SYSTEM**

Governor and injection type		Direct and mechanical
Fuel consumption at 100% of load	liters/hour	11,6
Fuel consumption at 75% of load	liters/hour	8,4
Fuel consumption at 50% of load	liters/hour	5,6

**EXHAUST SYSTEM**

Exhaust gas max. temperature	°C	611
Exhaust gas flow	kg/h	468
Max. back pressure exhaust gases	kPa	30

**ELECTRICAL SYSTEM**

Battery charging system		Alternador - 55A
Batteries specs	V/Ah/CCA	1x12/55/66

**Model****COMAP InteliNano PLUS****VALUES DISPLAYED ON THE SCREEN**

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

**MESSAGES DISPLAYED**

Parameters configuration and times programming		●
Alarms		●

**ALARMS**

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

**CONTROL, PROTECTION AND INDICATION IN ELECTRICAL PANELBOARD**

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

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



# POWER

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

### PARALLEL CONECTION 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

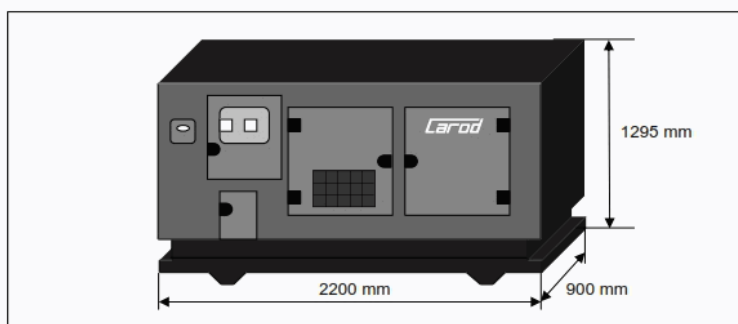
Manufacturer's brand	MECCALTE	
<b>Model</b>	<b>ECP32-3S/4</b>	
<b>Frequency</b>	<b>Hz</b>	<b>50</b>
Rated voltage	V	400
Connection type	Star-serie	
N° of phases	3	
N° of poles	4	
<b>Power ^T= 125 °C, 40°C PRIME</b>	<b>kVA</b>	<b>42,5</b>
<b>Power ^T= 163 °C, 27°C STANDBY</b>	<b>48</b>	
Power factor	0,8	
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	1420
Volume of fuel in tank	liters	157

### MEASUREMENTS



### MOUNTING BASEFRAME



# POWER

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, oil cooled 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 equipped with 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.