



PRIME

23,5 kVA



STAND-BY

25 kVA



PHASES

SINGLE PHASE



VOLTAGE

230 V



COOLED

WATER



COMBUSTIBLE

DIESEL



RPM

1500 RPM



Hz

50 Hz

MOTOR










KOHLER



ALTERNATOR

MECCALTE



 PRIME	23,5 kVA
 STAND-BY	25 kVA
 SINGLE PHASE	
 VOLTAGE	230 V
 50 Hz	
 RPM	1500 RPM
 COOLED	WATER
 COMBUSTIBLE	DIESEL
 SOUNDPROOF	

MOTOR	MODEL	ALTERNATOR	MODEL
<u>KOHLER</u>	<u>KDI 2504M</u>	<u>MECCALTE</u>	<u>ECP32-1S4C</u>

ENGINE DATA SHEET

Manufacturer's brand		KOHLER
Model		KDI 2504ML
Power	HP/kW	35.93/26.8
Power data according to standards		ISO 14396
Engine type		Diesel 4 strokes
Rated speed	r.p.m.	1500
Total displacement	liters	2,482
N° of cylinders		4 in line
Bore x stroke	mm	88 x 102
Compression ratio		N.D.
COOLING SYSTEM		
Cooling type		Liquid
Opening thermostat temperature	°C	79-94
Max. cooling temperature	°C	115
Radiator air flow	m3/h	2500
Engine coolant volume	liters	5,2
Whole system coolant volume	liters	10
AIR INTAKE SYSTEM		
Air intake type	m3/h	Natural
Air filter type		Dry type
Air intake max. flow (air 1,2 kg/m3)	m3/h	N.D.
LUBRICATION SYSTEM		
Oil replacement interval	hours	500
Max oil quantity including filter	liters	11,3
Minimum oil specs		API-CH4

Factory fill oil viscosity (SAE)		15W40
FUEL SYSTEM		
Governor and injection type		Mechanical, direct
Fuel consumption at 100% of load	liters/hour	injection 6.8
Fuel consumption at 75% of load	liters/hour	5.1
Fuel consumption at 50% of load	liters/hour	3.4
EXHAUST SYSTEM		
Exhaust gas max. temperature	°C	560
Exhaust gas flow	kg/h	95
Max. backpressure exhaust gases	kPa	6,5
ELECTRICAL SYSTEM		
Battery charging system		Alternator 55A
Batteries specs	V/Ah/CCA	12/70/300

Model	COMAP IntelliNano PLUS
VALUES DISPLAYED ON 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	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 asymmetry (Shutdown)	
Currents asymmetry (Shutdown)	

PARALLEL CONNECTION FOR "PARALLEL" VERSION COMAP Intel Compact NT MINT	
Optimization of running engines depending on the current load	█
Automatic synchronizing and load sharing	█
Voltage and power factor regulation (AVR)	█
Active and reactive power distribution	█

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

CONTROL, PROTECTION AND INDICATION IN ELECTRICAL PANELBOARD

Overcurrent protection	4P 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

ALTERNATOR DATA SHEET

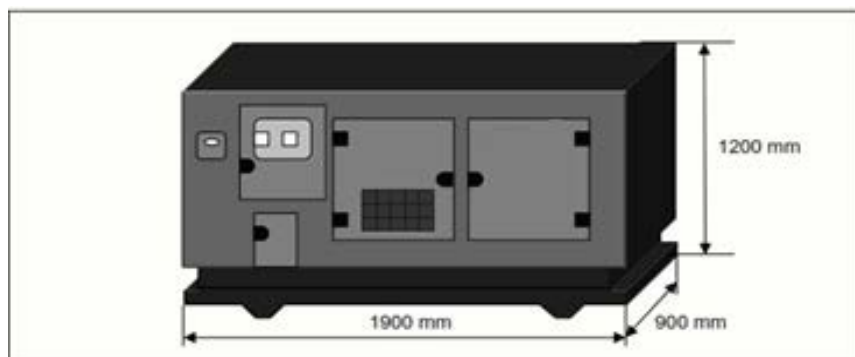
Manufacturer's brand	MECCALTE	
Model	ECP32-1S4C	
Frequency	Hz	50
Rated voltage	V	230
Connection type	Zigzag	
N° of phases	3	
N° of poles	4	
Power $\Delta T=125\text{ }^\circ\text{C}, 40^\circ\text{C PRIME}$	kVA	24,5
Power $\Delta T=163\text{ }^\circ\text{C}, 27^\circ\text{C STANDBY}$	27	
Power factor	0,8	
Isolation Class / ΔT Temp	H/H	
Protection grade	IP23	
Short circuit current (for 20sec.)	3In	
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	741
Volume of fuel in tank	liters	117

MEASUREMENTS



MOUNTING BASEFRAME

Electrically welded frame, made in folded steel sheet, painted with phosphate, 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 omega shaped legs for supporting and hoisting. Silent blocks to isolate linear vibration of the generator engine 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 phosphate, 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 UNE-EN 13162:2002. Access doors for

maintenance and inspection with key-lockable pressure latches. Includes hoisting ringbolt.

SOUND PRESSURE LEVEL: 69dB(A) (@ 7m).

ENGINE

Engine 4 stroke, direct injection, air cooled, mechanically governed at 1.500 r.p.m. Batteries charge for alternator.

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 channeled 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 PANEL

Installed in a folded steel sheet enclosure, mounted on metallic legs, fitted to the baseplate, both of them painted with phosphate, priming and powder coating. Controller panel equipped with parameters, configurations, and alarms indication on display. Shunt protection by means of earth leakage relay. Overcurrent protection by means of circuit breaker.

