

DATA SHEET

MODEL

70102000



kVA PRIME **kVA** STAND-BY
16 kVA

M PHASES **V** VOLTAGE
SINGLE PHASE 230 V

COOLED **COMBUSTIBLE**
WATER DIESEL

RPM **Hz**
1500 RPM 50 Hz

MOTOR

KOHLER



ALTERNATOR

SINCRO



kVA	PRIME	16 kVA
kVA	STAND-BY	
M	SINGLE PHASE	
V	VOLTAGE	230 V
Hz	50 Hz	
RPM	RPM	1500 RPM
COOLED	COOLED	WATER
COMBUSTIBLE	COMBUSTIBLE	DIESEL
SOUNDPROOF	SOUNDPROOF	

MOTOR

MODEL

ALTERNATOR

MODEL

KOHLER

KDI-1903M

SINCRO

KS4LEL

ENGINE DATA SHEET

Manufacturer's brand		KOHLER
Model		KDI 1903M
Power	kVA	27/20.71
Power data according to standards		ISO 3046
Rated speed	r.p.m.	1500
Total displacement	liters	1.861
N° of cylinders		3 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	4,2
Whole system coolant volume	liters	9
AIR INTAKE SYSTEM		
Air intake type		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	8,7
Minimum oil specs		API-CF
Factory fill oil viscosity (SAE)		15W40
FUEL SYSTEM		

Governor and injection type		Mechanical, direct
Fuel consumption at 100% of load	liters/hour	injection 5.3
Fuel consumption at 75% of load	liters/hour	4
Fuel consumption at 50% of load	liters/hour	2.7
EXHAUST SYSTEM		
Exhaust gas max. temperature	°C	560
Exhaust gas flow	kg/h	76
Max. backpressure exhaust gases	kPa	5
ELECTRICAL SYSTEM		
Battery charging system		Alternator 50A
Batteries specs	V/Ah/CCA	12/70/300

Model	COMAP IntelliNano 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	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)	

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

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 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	✓

ALTERNATOR DATA SHEET

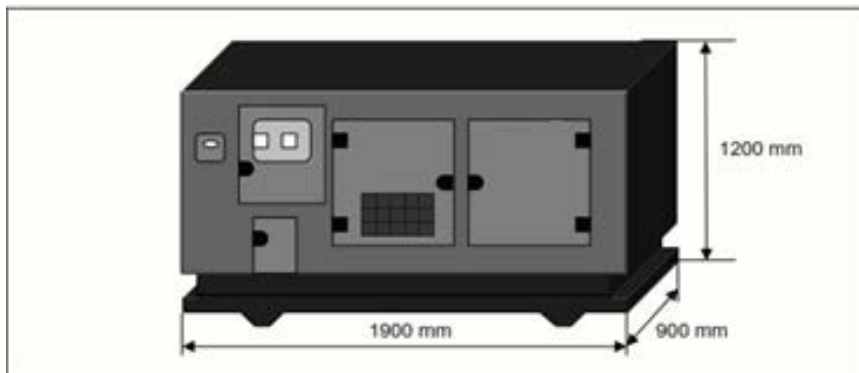
Manufacturer's brand	SINCRO	
Model	KS4LEL	
Frequency	50	
Rated voltage	V	230
Rated speed	r.p.m.	1500
N° of phases	1	
N° of poles	4P	
Power	kVA	16
Power factor	1	
Protection grade	IP21	
Short circuit current (for 20sec.)	>3 In	
Voltage regulator	Compound	

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	712
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

LOMBARDINI 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 PANELBOARD

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. Output power by means of 16A CETAC plug and 16A single phase Schuko socket.