GENERATOR SET

DATA SHEET

MODEL

923935FTR01

CTI-110LI FTR01

The image is orientative

PRIME	STAND-BY	PHASES	VOLTAGE
100 kVA	110 kVA	THREE-PHASE	400 V

COOLED	COMBUSTIBLE	RPM	Hz
WATER	DIESEL	1500 RPM	50 Hz

MOTOR	ALTERNATOR
IVECO FPT	STAMFORD

CAROD
Pol. Ind. PITARCO II Parc. Nº23
50450 MUEL (Zaragoza)
España

☎ +34 976 140 800
+34 976 140 888
carod@carod.es
www.carod.es

DATA SHEET GENERATOR SET

923935FTR01 CTI-110LI FTR01

The image is orientative

kVA	PRIME	100 kVA
kVA	STAND-BY	110 kVA
T	THREE-PHASE	
V	VOLTAGE	400 V
Hz	50 Hz	
RPM	RPM	1500 RPM
	COOLED	WATER
D	COMBUSTIBLE	DIESEL
	SOUNDPROOF	
	SOUND LEVEL	68dB(A)@7m

+-6% REVERBERACION

MOTOR	MODEL	ALTERNATOR	MODEL
IVECO	NEF45 TM2	STAMFORD	UCI274C

ENGINE DATA SHEET		
Manufacturer's brand		IVECO
Model		**NEF45 TM2**
Max power	HP/kW	96
Power data according to standards		ISO 8528
Rated speed	**r.p.m.**	**1500**
Total displacement	liters	4,5
N° of cylinders		4 in line
Bore x stroke	mm	104 x 132
Compression ratio		17,5:1
COOLING SYSTEM		
Cooling type		Liquid
Max. environment temperature for radiator	°C	50
Cooling air flow	m3/s	2,25
Engine coolant volume	liters	8,5
Whole system coolant volume	liters	18,5
Coolant irradiated heat	kcal/kWh	417,3
Heat exchanger	kcal/kWh	128,6
Heat emitted by radiation motor surfaces	kcal/kWh	55
AIR INTAKE SYSTEM		
Air intake type		Turbo aftercooler
Air filter type		Radial
Air intake max. flow (air 1,2 kg/m3)	m3/h	617
Heat exchanger charge air / water		Yes
LUBRICATION SYSTEM		
Max oil quantity including filter	liters	5,5

CAROD
Pol. Ind. PITARCO II Parc. N°23
50450 MUEL (Zaragoza)
España

☎ +34 976 140 800
+34 976 140 888
carod@carod.es
www.carod.es

Minimum oil specs		ACEA E3-E5
Factory fill oil viscosity (SAE)		15W40
FUEL SYSTEM		
Governor and injection type		Mecanical, direct injection
Fuel consumption at 100% of load	liters/hour	22
Fuel consumption at 80% of load	liters/hour	16
Fuel consumption at 50% of load	liters/hour	11
EXHAUST SYSTEM		
Exhaust gas max. temperature	°C	535
Exhaust gas flow	kg/h	533
Max. back pressure exhaust gases	kPa	6
Exhaust irradiated heat	kcal/kWh	731,6
ELECTRICAL SYSTEM		
Battery charging system		Alternator
Batteries specs	V/Ah/CCA	1x12/100/650

Model	**COMAP InteliNano PLUS**
VALUES DISPLAYED ON THE SCREEN	
Generator parameters	U1-U3, I1 or I2 or I3, 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	4P Circuit Breaker + Controller
Earth leakage protection	Electronic relay
Emergency shutdown mushroom pushbutton	Included

CAROD
Pol. Ind. PITARCO II Parc. N°23
50450 MUEL (Zaragoza)
España
☎ +34 976 140 800
+34 976 140 888
carod@carod.es
www.carod.es

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

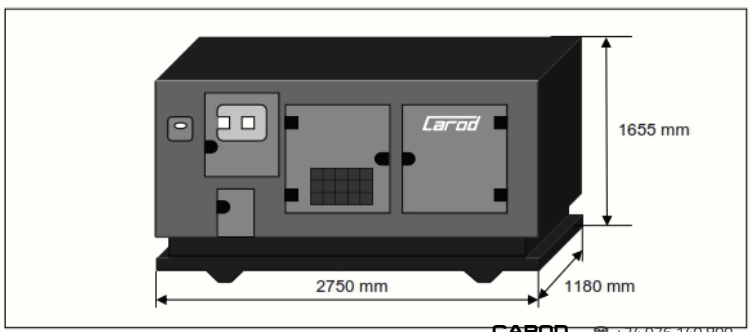
PARALLEL CONECTION FOR "PARALLEL" VERSION COMAP InteliGEN 200	
Optimisation of running engines depending on the current load	●
Automatic synchronizing and load sharing	●
Voltage and power factor regulation (AVR)	●
Active and reactive power distribution	●

ALTERNATOR DATA SHEET		
Manufacturer's brand		STAMFORD
Model		**UCI274C**
Frequency	**Hz**	**50**
Rated voltage	V	400
Connection type		Star-Serie
N° of phases		3
N° of poles		4
Power ^T= 125 °C, 40°C PRIME	**kVA**	**100**
Power ^T= 163 °C, 27°C STANDBY		**110**
Power factor		0,8
Isolation Class / ^Temp		H/H
Protection grade		IP23
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	1950
Volume of fuel in tank	liters	277

MEASUREMENTS



CAROD
Pol. Ind. PITARCO II Parc. N°23
50450 MUEL (Zaragoza)
España
+34 976 140 800
+34 976 140 888
carod@carod.es
www.carod.es

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 UNE-EN13162:2002. 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 chanelled outside the genset across the cooling fan.

ALTERNATOR

Brushless, self excited, 4 poles alternator with ±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: Consult manufacturer.

CAROD
Pol. Ind. PITARCO II Parc. N°23
50450 MUEL (Zaragoza)
España
+34 976 140 800
+34 976 140 888
carod@carod.es
www.carod.es