

Genset with manual control panel.



Image for guidance purposes.

PRP

CONTINUOUS POWER: 636 kVA

PRP "Prime Power" norma ISO 8528-1

LTP

STAND-BY POWER: 704 KVA

LTP "Limited Time Power" norma ISO 8528-1

ENGINE

MAKE	MODEL
VOLVO	TWD1643GE

ALTERNATOR

MAKE	MODEL
STAMFORD	HCI 544 F

VOLTAGE	HZ	PHASE	COS Ø	PRP kVA/kW	LTP kVA/kW	AMP. (LTP)
400/230	50	3	0,8	636,0/508,8	704,0/563,2	919

ENGINE CHARACTERISTICS

MAKE	MODEL
VOLVO	TWD1643GE

General Data

Power PRP (kWm)	536
Power LTP (kWm)	596
No. cylinders	6
Cylinder capacity (L)	16.12
Diameter per stroke (mm)	144 x 165
Compression ratio	16.50
Cooling system	LIQUID
Injection	COMMON RAIL
Suction	TURBO-INTERC.
Series regulator	ELECTRONIC
Fly wheel coupling	1-14 "

Lubrication system

Oil capacity (L)	48
Oil consumption (%)	0.08
Min. alarm oil pressure (bar)	2.20

Ventilation system

Air cooling flow (m ³ /h)	46800
Combustion air flow (m ³ /h)	2640
Max. back pressure for fan (mbar)	0

Exhaust system

Exhaust gas flow (m ³ /h)	6096
Exhaust back pressure (mbar)	100
Temp. exhaust gases (°C)	450

Electrical system

VDC (V)	24
Battery (Ah)	2 x 180
Engine start-up (kW)	7

ALTERNATOR CHARACTERISTICS

MAKE	MODEL
STAMFORD	HCI 544F

General Data

Power PRP (kVA)	670
Power LTP (kVA)	738
Efficiency Alt. Prime	95
Efficiency Alt. Standby	94,6
No. Poles	4
Voltage regulator	AS440
No. wires	12
Insulation	H
X _d (Ω)	2.62
X' _d (Ω)	0.14
X'' _d (Ω)	0.10
Degree of protection	IP23

GENERATOR SET CONSUMPTION

% POWER USED	LITRES/HOUR
50%	59
75%	89
100%	120

DIMENSIONS, CAPACITIES, APPROXIMATE WEIGHT

Dimensions (mm)		
LENGTH	WIDTH	HEIGHT
4860	2060	2630

FUEL TANK (LITRES)	WEIGHT (KG)
1000	6.660

NOISE LEVEL (dB (A))
75 dB(A)@7m



INMESOL GENERATOR SET

GENERAL DESCRIPTION

The "INMESOL" generator set is an electrical energy generating machine which is used in places where there is **no mains supply** or when there is a MAINS failure.

The mobile elements, distribution belt, fan, etc., and those parts which reach high temperatures during operation, exhaust manifold, etc, include their corresponding protections, in compliance with the requirements of the Machinery Directive **2006/42**.

REGULATIONS

The machine holds the "CE" marking, and the corresponding Declaration of Conformity is issued with each of them, in which it specifies that the machine complies with **R.D 842/2002 Low Voltage Regulations and with the European Directives :**

- 2006/42 on Safety in Machinery.
- 2006/95 /CE on Electrical Safety.
- 2004/108 /CE on Electromagnetic Compatibility.
- 2005/88/CE on NOISE EMISSIONS by equipment for outdoor use (for SOUNDPROOF GENERATOR SETS).

Model: IV-700 - INDUSTRIAL RANGE 400/230 V - THREE-PHASE | 1.500 R.P.M. | 50 Hz

IN INDUSTRIAL RANGE

Scope of supply

Engine/alternator monobloc directly connected and installed via silent blocks on a frame made from high tensile electro welded steel profiles that are treated with degreasing liquids and aplicated with a phosphate coat and polyester (QUALICOAT) paint.

Canopy of steel sheet sound proofed with fireproof rockwool, and treated with degreasing liquids and aplicated with a phosphate coat and polyester (QUALICOAT) paint.

Sealed chassis

Fuel tank integrated in the base frame provided with fuel level jauge and fuel connections to the engine.

Engine with mechanical engine driven pusher fan.

Residencial silencer with -35 db(A) noise reduction with exhaust tube and protection cap.

Electric control cubicle with control module including protection and reading of electrical meassures engine instrumentation fuel level and engine running hours, etc. remote start possibility

Termal and magnetic circuit breaker and termal and magnetic circuit breaker and earth fault relay.

Battery charge alternator.

Starter battery complete with cables to the engine and pole protection.

Installation prepared for earthing spike (spike not included).

Security protection for heat and moving parts as well as live electrical components.

External emergency stop push button.

Manual engine oil extraction pump.

Self excited and auto regulated alternator.

Integrated lifting hook for single point lifting with crane, gensets up to 450 kVA (Except in swing-out cover model)

Base frame is prepared for trailer kit installation.

Standard electronic speed governor on engines from 220 kVA (LTP) and up.

Vertical outlet for hot air.

OPTIONS

PREWIRED VERSION GENSETS **WITH AMF/ATS PANEL** GENSET WITH AMF
POLE CIRCUIT BREAKERAND SEPARATED ATS PANEL



CONTROL PANEL BUT **WITHOUT ATS PANEL** FOR AMF AND 4

Battery charger

Coolant preheating

AMF/ATS panel to turn a manual gen set to automatic version (consult the last page)

Residencial silencer

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DSE 7310 MANUAL CONTROL PANEL

Code:

MANUAL CONTROL, PROTECTION AND DISTRIBUTION panel, assembled on the generator set in metal cabinet with a DSE 7310 engine protection unit.



Image for guidance purposes.

It has the following:

1. EMERGENCY STOP PUSHBUTTON.

2. PROTECTIONS :

Magnetothermal Protection.

Earth Leak Protection

Protection fuses for control module

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DSE 7310 MANUAL CONTROL PANEL

Code:

3 . DSE 7310 PROTECTION CONTROL MODULE.

LCD SCREEN:

It has a digital LCD screen, which provides easy reading of the information regarding the ENGINE, ALTERNATOR and CHARGING.

ENGINE: ALTERNATOR AND CHARGE:

Coolant temperature Voltages between phases and between phases and neutral.

Oil pressure Intensities

Turning speed (rpm) Frequency

Fuel level Active Power (kW)

Battery voltage Reactive Power (kVAr)

Battery alternator voltage. Apparent Power (kVA)

Operating hours Cos phi

Number of start-ups Active energy meter (kW-h)

CONTROL OF THE SET:

START AND STOP the set MANUALLY.

Possibility of doing it AUTOMATICALLY via START ON SIGNAL.

PROTECTION OF THE ENGINE AND ALTERNATOR, WITH THE ALARMS ACTIVATED:

ENGINE: ALTERNATOR:

Low oil pressure Low and High Voltage

High coolant temperature Low and High Frequency

Low and High battery Voltage Overload due to Intensity (A)

Failure of the alternator to charge batteries Short-circuit

Low fuel level. Negative Phase Sequence.

Power Overload (KW-kVA)

Load control:

▪ Connection and disconnection of artificial loads.

▪ Disconnection of non-essential loads

OTHER CHARACTERISTICS:

The real-time clock provides an exact record of events Modbus RTU

Extensive number of configurable inputs and outputs. Possibility of SMS text messages

Configurable alarms and timers. Communications Ethernet, RS 232 and RS 485

USB connectivity be configured for the optimal operation of the engine. Weekly and/ or monthly programming of up to 16 starts and stops per week.

Fully configurable via software and PC



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DSE 7310 MANUAL CONTROL PANEL

Code:

4 . PROTECTIONS

MAGNETO. PROTECTION (A)	EARTH LEAK PROTECTION	DISTRIBUTION
1000A, 3P	Electronic, adjustable	Power terminals