



# BI540T

INDUSTRIAL RANGE  
Powered by FPT\_IVECO



SERVICE		PRP	ESP
POWER	kVA	500	538
POWER	kW	400	430
RATED SPEED	r.p.m.	1.500	
STANDARD VOLTAGE	V	400/230	
AVAILABLE VOLTAGES	V	230/132 · 230 V (t)	
RATED AT POWER FACTOR	Cos Phi	0,8	



## INDUSTRIAL RANGE

INTERNACO Company with quality certification ISO 9001  
INTERNACO gensets are compliant with EC mark which includes the following directives:

- 2006/42/CE Machinery safety.
- 2014/30/UE Electromagnetic compatibility.
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- EN 12100, EN 13857, EN 60204

Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

### Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

### Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Continuous Power (COP): According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.



## STANDARD SOUNDPROOFING



WATER-COOLED



THREE PHASE



50 HZ



NON COMPLYING 97/68/EC



DIESEL

Internaco has the right to modify any feature without prior notice.

Weights and dimensions based on standard products. Illustrations may include optional equipment.

Technical data described in this catalogue correspond to the available information at the moment of printing.

The illustrations and images are indicative and may not coincide in their entirety with the product.

Industrial design under patent.



## Engine Specifications | 1.500 r.p.m.

Rated Output (PRP)	kW	423,9
Rated Output (ESP)	kW	457,9
Manufacturer	FPT_IVECO	
Model	C13TE7	
Engine Type	4-stroke diesel	
Injection Type	Direct, common rail	
Aspiration Type	Turbocharged and after-cooled	
Number of cylinders and arrangement	6-L	
Bore and Stroke	mm	135 x 150
Displacement	L	12,88
Cooling System	Liquid (water + 50% glycol)	
Lube Oil Specifications	ACEA E3 - E5	
Compression Ratio	16,5:1	

Lube oil consumption with full load	0,5 % of fuel consumption	
Total oil capacity including tubes, filters	L	32
Total coolant capacity	L	38,1
Heat dissipated by coolant	kW	199,5
Governor	Type	Electrical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	108



- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Water separator filter (no visible level)
- Dry air filter
- Radiator with pusher fan
- Radiator water level sensor
- HTW sender
- LOP sender
- Electronic governor
- Hot parts protection
- Moving parts protection



## Generator Specifications | STAMFORD

Manufacturer	STAMFORD	
Model	HCI544D	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-1 14"	
Insulation	Class	H class

Enclosure (according IEC-34-5)	IP23	
Exciter system	Self-excited, brushless	
Voltage regulator	A.V.R. (Electronic)	
Bracket type	Single bearing	
Coupling system	Flexible disc	
Coating type	Standard (Vacuum impregnation)	



- Self-excited and self-regulated
- 4 poles
- AVR governor
- IP23 protection
- H class insulation
- Single drive-shaft
- Flexible disc coupling

## WEIGHT AND DIMENSIONS

Standard Version		
Length (L)	mm	4.100
Height (H)	mm	2.200
Width (W)	mm	1.600
Maximum shipping volume	m <sup>3</sup>	14,43
Weight with liquids in radiator and sump	Kg	4707
Fuel tank capacity	L	597
Autonomy (100% PRP)	Hours	6
Steel tank		

## SOUND LEVEL

Sound power level 2000/14/CE	LwA 109 dB	
Sound pressure level	dB(A)@7m	80 ± 2,4

## APPLICATION DATA

### EXHAUST SYSTEM

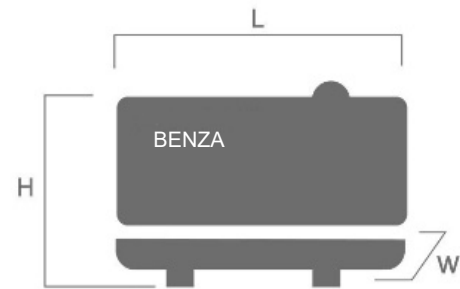
Maximum exhaust temperature	°C	520
Maximum allowed back pressure	mbar	50
Exhaust Flange Size (external diameter)	mm	140
Heat dissipated by exhaust pipe	KCal/Kwh	581

### FUEL CONSUMPTION

Fuel Consumption ESP	l/h	112,6
Fuel Consumption 100% PRP	l/h	100,6
Fuel Consumption 70 % PRP	l/h	70,63
Fuel Consumption 50 % PRP	l/h	51,5

### STARTING SYSTEM

Starting power	kW	7,8
Starting power	CV	10,61
Recommended battery	Ah	50 x 2
Auxiliary Voltage	Vdc	24



### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	1576
Cooling Air Flow	m <sup>3</sup> /s	10,9
Alternator fan air flow	m <sup>3</sup> /s	1,035

### FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	597

## Soundproofed version

- Steel chassis
- Anti-vibration shock absorbers
- Fuel tank
- Fuel level gauge
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density volcanic rock wool
- Epoxy polyester powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Reinforced lifting hooks for crane hoisting
- Watertight chassis (acts as a double barrier against liquid retention)
- Fuel tank drain plug
- Chassis drain plug
- Chassis ready for future mobile kit installation
- Steel residential silencer -35db(A) attenuation.
- Oil sump extraction kit
- Versatility to assemble a high capacity chassis with a metallic fuel tank
- IP Protection according to ISO 8528-13:2016