



# BY14T

INDUSTRIAL RANGE  
Powered by YANMAR



SERVICE		PRP	ESP
POWER	kVA	12,5	13,2
POWER	kW	10	10,7
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 S.A. Company with quality certification ISO 9001  
INTERNACO's 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)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2012/46/EU)
- 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 REQUIRED 97/68



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	12,2
Rated Output (ESP)	kW	13,2
Manufacturer	YANMAR	
Model	3TNV88	
Engine Type	4-stroke diesel	
Injection Type	Direct	
Aspiration Type	Natural	
Number of cylinders and arrangement	3-L	
Bore and Stroke	mm	88 x 90
Displacement	L	1,642
Cooling System	Coolant	
Lube Oil Specifications	SAE 3 class 10W30 / API grade CD,CF	
Compression Ratio	19,1	

Lube oil consumption with full load	g/kWh	0,27
Total oil capacity	L	6,7
Total coolant capacity	L	4,8
Governor	Type	Mechanical
Air Filter	Type	Dry
Inner diameter exhaust pipe	mm	36

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 12V electrical system
- Water separator filter (visible level)
- Dry air filter
- Radiator with pusher fan
- Mechanical governor
- Hot parts protection
- Moving parts protection



## Generator Specifications | STAMFORD

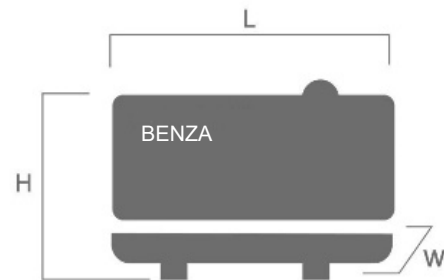
Manufacturer	STAMFORD	
Model	S0L1.L1	
Poles	No.	4
Connection type (standard)	Star-series	
Mounting type	S-4 7,5"	
Insulation	Class	H class

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
- IP23 protection
- H class insulation

## WEIGHT AND DIMENSIONS

		Standard Version
Length (L)	mm	1.475
Height (H)	mm	1.110
Width (W)	mm	750
Maximum shipping volume	m <sup>3</sup>	1,22
Weight with liquids in radiator and sump	Kg	530
Fuel tank capacity	L	22
Autonomy (100% PRP)	Hours	7
Plastic tank		



## SOUND LEVEL

Sound power level 2000/14/CE	LwA 90 dB	
Sound pressure level	dB(A)@7m	62 ± 2,4

## APPLICATION DATA

### EXHAUST SYSTEM

Maximum exhaust temperature	°C	450
Exhaust Gas Flow	m <sup>3</sup> /min	3,07
Maximum allowed back pressure	mm H2o	1300
Exhaust Flange Size (external diameter)	mm	50

### NECESSARY AMOUNT OF AIR

Intake air flow	m <sup>3</sup> /h	66,5
Cooling Air Flow	m <sup>3</sup> /s	0,7
Alternator fan air flow	m <sup>3</sup> /s	0,058

### FUEL CONSUMPTION

Fuel Consumption ESP	l/h	3,51
Fuel Consumption 100% PRP	l/h	3,19
Fuel Consumption 70 % PRP	l/h	2,37
Fuel Consumption 50 % PRP	l/h	1,83

### FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank	L	22

### STARTING SYSTEM

Starting power	kW	1,2
Starting power	CV	1,63
Recommended battery	Ah	66
Auxiliary Voltage	Vdc	12

- Steel chassis
- Anti-vibration shock absorbers
- Chassis with integrated 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)
- Watertight chassis (acts as a double barrier against liquid retention)
- Fuel tank drain plug
- Chassis drain plug
- 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