



BY44T

INDUSTRIAL RANGE
Powered by YANMAR



| SERVICE | | PRP | ESP |
|-----------------------|---------|---------------------|-----|
| POWER | kVA | 42 | 45 |
| POWER | kW | 33 | 36 |
| 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)
- 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



STAGE 2



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 | 37,7 |
| Rated Output (ESP) | kW | 41,4 |
| Manufacturer | YANMAR | |
| Model | 4TNV98T | |
| Engine Type | 4-stroke diesel | |
| Injection Type | Direct | |
| Aspiration Type | Turbocharged | |
| Number of cylinders and arrangement | 4-L | |
| Bore and Stroke | mm | 98 x 110 |
| Displacement | L | 3,319 |
| Cooling System | Coolant | |
| Lube Oil Specifications | SAE 3 class 10W30 / API grade CD,CF | |
| Compression Ratio | 18,1 | |

| | | |
|-------------------------------------|-------|------------|
| Lube oil consumption with full load | g/kWh | 0,27 |
| Total oil capacity | L | 10,5 |
| Total coolant capacity | L | 9 |
| Governor | Type | Mechanical |
| Air Filter | Type | Dry |
| Inner diameter exhaust pipe | mm | 45 |


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- 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

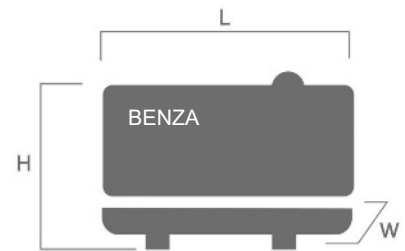
| | | |
|----------------------------|-------------|---------|
| Manufacturer | STAMFORD | |
| Model | S1L2.N1 | |
| Poles | No. | 4 |
| Connection type (standard) | Star-series | |
| Mounting type | S-3 11*1/2 | |
| Insulation | Class | H class |

| | |
|--------------------------------|--------------------------------|
| 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 | 2.250 |
| Height (H) | mm | 1.450 |
| Width (W) | mm | 1.050 |
| Maximum shipping volume | m ³ | 2,76 |
| Weight with liquids in radiator and sump | Kg | 1.060 |
| Fuel tank capacity | L | 100 |
| Autonomy | Hours | 14 |
| | | Plastic tank |



SOUND LEVEL

| | |
|------------------------------|-------------------|
| Sound power level 2000/14/CE | LwA 91 dB |
| Sound pressure level | dB(A)@7m 62 ± 2,4 |

APPLICATION DATA

EXHAUST SYSTEM

| | | |
|---|---------------------|-------|
| Maximum exhaust temperature | °C | 480 |
| Exhaust Gas Flow | m ³ /min | 10,45 |
| Maximum allowed back pressure | mm H ₂ O | 1000 |
| Exhaust Flange Size (external diameter) | mm | 65 |

NECESSARY AMOUNT OF AIR

| | | |
|-------------------------|-------------------|--------|
| Intake air flow | m ³ /h | 194,16 |
| Cooling Air Flow | m ³ /s | 0,979 |
| Alternator fan air flow | m ³ /s | 0,176 |

FUEL CONSUMPTION

| | | |
|---------------------------|-----|-------|
| Fuel Consumption 100% ESP | l/h | 10,11 |
| Fuel Consumption 100% PRP | l/h | 9,16 |
| Fuel Consumption 70 % PRP | l/h | 6,53 |
| Fuel Consumption 50 % PRP | l/h | 4,89 |

FUEL SYSTEM

| | | |
|-------------------------|--------|-----|
| Fuel Oil Specifications | Diesel | |
| Fuel Tank | L | 100 |

STARTING SYSTEM

| | | |
|---------------------|-----|------|
| Starting power | kW | 2,3 |
| Starting power | CV | 3,13 |
| Recommended battery | Ah | 92 |
| 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)
- 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