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Power, Durability, & Quality





# **Generating Rates**

SERVICE		PRP	STANDBY	
Power	kVA	60.0	67.0	
Power	kW	50.9	56.0	
Rated Speed	r.p.m.	1500		
Standard Voltage	V	415		
Available Voltages	V	240/415 V		
Rated at power factor	Cos Phi	0.	.8	

Ambient conditions of reference: 1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 normative.P.R.P. Prime Power - ISO 8528: Prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

Standby Power (ISO 3046 Fuel Stop power): Power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year – 90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

# Engine Specifications @ 1500 r.p.m.

ENGINE		PRP	STANDBY	
Rated Output	kW	50.9	56.0	
Manufacturer		YANMAR		
Model		4TNV106T		
Engine Type		Diesel 4 strokes-cycle		
Injection Type		Direct		
Aspiration Type		Turbocharged		
Ciylinders Arrangement		4 - inline		
Bore and Stroke	mm	106 x 125		
Displacement	L	4.412		
Cooling System		Water		
Lube Oil Specifications		SAE 10W30 / API grade CD		
Fuel Consumption 100% PRP	l/h	ТВА		
Fuel Consumption 75 % PRP	l/h	ТВА		
Fuel Consumption 50 % PRP	l/h	ТВА		
Lube Oil Consumption Full Load	g/kwh	0.27		
Total Oil Capacity	L	18.0		
Total Coolant Capacity	L	9.0		
Governor	Туре	Centrifugal		
Air Filter	Туре	Dry - 4" Single Element		
Inner diameter exhaust pipe	mm	4	5.0	

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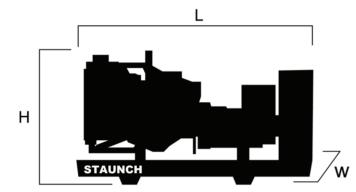
www.staunchmachinery.com

Air Inlet System		
Intake Air Flow	m3/h	194.16
Cooling Air Flow	m3/s	0.979
Alternator fan air flow	m3/s	0.09

Starting System		
Starting Motor	kW	2.3
Starting Motor	CV	3.13
Recommended Battery Capacity	Ah	92
Auxiliary Voltage	Vcc	12

Fuel System		
Fuel Specifications		Diesel
Fuel Tank volume	L	170
Autonomy 75% load	Hours	24.4

# **Dimensions**



Weight and Dimensions		Open Type	Silent	Super Silent
(L) Length	mm	1850	2280	TBA
(H) Height	mm	1250	1340	TBA
(W) Width	mm	980	980	TBA
Shipping Volume seaworthy (standard suplier)	m3	2.26	2.99	TBA
(*) Wet weight	Kg	740	1050	TBA
Noise level @ 1m	dB	ТВА	ТВА	TBA
Noise level @ 7m	dB	TBA	64.0	TBA

### (\*) (with standard accesories)

Weights and dimensions based onstandard products. Illustrations may include optional equipment. Technical data described here correspond with the available information at the moment of printing. Industrial design under patent.

Local Distributor

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Generator		
STAMFORD		UC1224E
Poles	Num	4
Winding Conections (standard)		Double delta
Frame Mounting		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)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

# **Control & Power Panel**

- 1. CM Control Panel.
- 2. CP Power Panel.
- 3. On/Off Switch.
- 4. Emergency Stop.
- 5. Main Line Circuit Breaker for overload protection.
- 6. Main bus /hardwire connection panel with safety
- protection.

# **Auto-start multilingual control panel Deep Sea 6120**

- 1. Voltage between each Phase & Neutral
- 2. Voltage between Phases
- 3. Current (amps) on each Phase
- 4. Frequency
- 5. Active, Aparent & Reactive Power
- 6. Power Factor
- 7. Instant Power (KwH) and Accumulative power)

### **Engine Alarms**

- 1. High coolant temperature.
- 2. Low oil pressure.
- 3. Battery charge alternator
- 4. Start failure.
- 5. Low water level.
- 6. Fuel storage.
- 7. Overspeed.
- 8. Underspeed.
- 9. Low battery voltage.
- 10. High coolant temperature by sensor.
- 11. Low oil pressure by sensor.
- 12. Low fuel level by sensor.
- 13. Unexpected shutdown.
- 14. Stop failure.
- 15. Low engine temperature.
- 16. Genset voltage drops.
- 17. Emergency stop.

### **Genset Alarms**

- 1. Over-load
- 2. Unbalanced voltage
- 3. Over voltage
- 4. Under voltage
- 5. Over frequency
- 6. Under frequency
- 7. Over load
- 8. Short-circuit
- 9. Inverse Power
- 10. Asymmetry among phases
- 11. Genset contactor Failure

Programmable Alarms:

There are 5 programmable alarms on text and action that could be associated to any engine alarms and showed on the auxiliary led 1 and 2 of the display

- 8. Fuel level 9. Oil pressure, coolant temperature, oil temperature 10. Battery voltage, battery charging alternator voltage 11. Engine Speed

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- 12. Hours running
- 13. Multilingual (Spanish, English, French, Ita

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### **Mains Alarms**

- 1. Maximum Mains Voltage.
- 2. Minimum Mains Voltage.
- 3. Maximum Mains Frequency.
- 4. Minimum Mains Frequency.
- 5. Mains phase sequence failure.
- 6. Mains power failure.
- 7. Mains contactor switching failure.

# **Generating Sets Standard and Optional Features**

# Engine

- · Diesel engine
- · 4 strokes-cycle
- $\cdot$  Water-cooled
- 12V Electrical system
- $\cdot$  Radiator with blowing fan
- $\cdot$  Water separator decanting filter (visible level)
- $\cdot$  Mechanical governor

**Alternator:** 

IP23 protection degree
Insulation H class

- $\cdot$  Dry air cleaner
- $\cdot$  Hot components and radiator guards

· 4 pole Self-excited and Self-regulated

 $\cdot$  Mobile components guards

# <image>

Yanmar 4TNV106T Industrial Engine

# Electrical system

- · Control and power electric panel, with measurements devices and controller (according to necessity and configuration)
- $\cdot$  Earth leakage protection adjustable (time & sensibility) standard
- · 3 pole circuit breaker
- · Pre-heating resistance (standard on automatic control panels) / water jacket heater
- $\cdot$  Battery charge alternator with ground connection
- $\cdot$  Starting battery/ies installed and connected to the engine (supports included)
- $\cdot$  Ground connection electrical installation with connection ready for ground pike (not supplied)
- $\cdot$  Battery isolator switch

# **Open set version**

- $\cdot$  Emergency stop button
- $\cdot$  Steel made chassis
- $\cdot$  Antivibration shock absorber
- $\cdot$  Chassis with integrated fuel tank
- $\cdot$  Fuel level sensor
- · Drain cap fuel tank
- · Steel made residential silencer -15db(A) attenuation

# **Optional :**

- · Fuel transfer pump
- · Steel made residential silencer -35db(A) attenuation.
- · Deep Sea Battery Charger



Stamford UC Range Alternator

# Application Data

Exhaust System		
Maximum exhaust temperature	٥C	480
Exhaust Gas Flow	m3/min	10.45
Maximum allowed back pressure	mm H2o	1000

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