ENGINE DRIVEN WELDER
TS 200 DES/CF

The images are for reference

WELDING PROCESS

Shielded Metal Arc welding SMAW (STICK)

FEATURES

- Arc welding source in D.C. welding
- Welds any type of electrode, including cellulosic
- The steel stretcher provides protection for the entire machine
- A.C. generator, single-phase and three-phase

DEFINITIONS

SMAW: Coated electrode welding is an arc welding with protected metal.

GMAW: welding is an arc process with metal under gas protection.

FCAW (FLUX CORED): The process with cored wires is very similar to MIG / MAG welding. Continuous wire is not full but consists in a metal strip that wraps a powders core (flow).

GTAW: is a welding process that uses a tungsten electrode that cannot melt.

air cooled

diesel

electric starter

ENGINE 3000 RPM

4-TEMPI, OHV	
Model	YANMAR L 100 V
* Stand-by net power	6.3 kWm (8.5 hp)
* PRP net power	5.7 kWm (7.7 hp)
* COP net power	/
Cylinder / Dislacement	1 / 435 cm³ (0.27 lt.)
Bore / Stroke	86 / 75 (mm)
Compression ratio	20 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	1.5 lt./h
100 % of PRP	1.3 lt./h
75 % of PRP	1 lt./h
50 % of PRP	0.75 lt./h
COOLING SYSTEM	Air
Total system cap. - only engine	/
Fan air flow	/
LUBRIFICATION SYSTEM	
Total oil system capacity	/
Oil capacity in sump	1.6 lt.
Oil consumption at full load	/
EXHAUST SYSTEM	
Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	3.3 kPa (0,033 bar - 330 mmH_2O)
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	/
Starter motor power	/
Battery charging alternator cap.	/
Cold start	0°C
AIR FILTER	Dry
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

* Output powers according to ISO 3046-1

CHARACTERISTICS OF WELDING AND GENERATION

TS 200 DES/CF

C.C. Welding

CONSTANT CURRENT	
Current range	20 ÷ 100 A / 90 ÷ 190 A
Type of regulation	/
Duty cycle	190 A - 35% I 160 A - 60% I 120 A - 100%
Open circuit voltage	98 V
Arc force control	No

General Specifications

Fuel tank capacity	5.5 l
Fuel consumption (welding 60%)	1 l/h
Running time (welding 60%)	5.5 h

IP protection degree	IP 23
Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)

* For fixed installation in the EU market only.

A.C. Generation

ASYNCHRONOUS THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	
Insulation class	H

Auxiliary Generation

OUTPUT 1	
Type of source	Three-phase
Frequency	50 Hz
Power kVA (Power kW) Max	6 kVA (4.8 kW)
Cos φ	0.8
Voltage	400V
Current	8.7 A

OUTPUT 2	
Type of source	Single-phase
Frequency	50 Hz
Power kVA (Power kW) Max	5 kVA
Cos φ	0.8
Voltage	230V
Current	21.7 A

OUTPUT 3	
Type of source	Single-phase
Frequency	50 Hz
Power kVA (Power kW) Max	2 kVA (1.6 kW)
Cos φ	0.8
Voltage	48V
Current	41.6 A

OUTPUT 4	
Type of source	Single-phase
Frequency	50 Hz
Power kVA (Power kW) Max	2.5 kVA (2 kW)
Cos φ	0.8
Voltage	110V
Current	22.7 A

The use of the auxiliary generation is recommended for welding tools (grinding wheels, electric hammers, lights, etc.)

Control Panel

- Sockets: 1x400V 16A 3P + N + T CEE
  1x230V 16A 2P + T CEE
  1x48V 32A 2P CEE
- Black (-) soldering socket
- Red socket (+) welding II Scale
- Red socket (+) welding I Scale
- ELCB-GFI (Ground Fault Interruptor)
- Welding current regulator
- AUX socket voltage indicator lights
- Earth terminal (PE)

Combinations Available Sockets

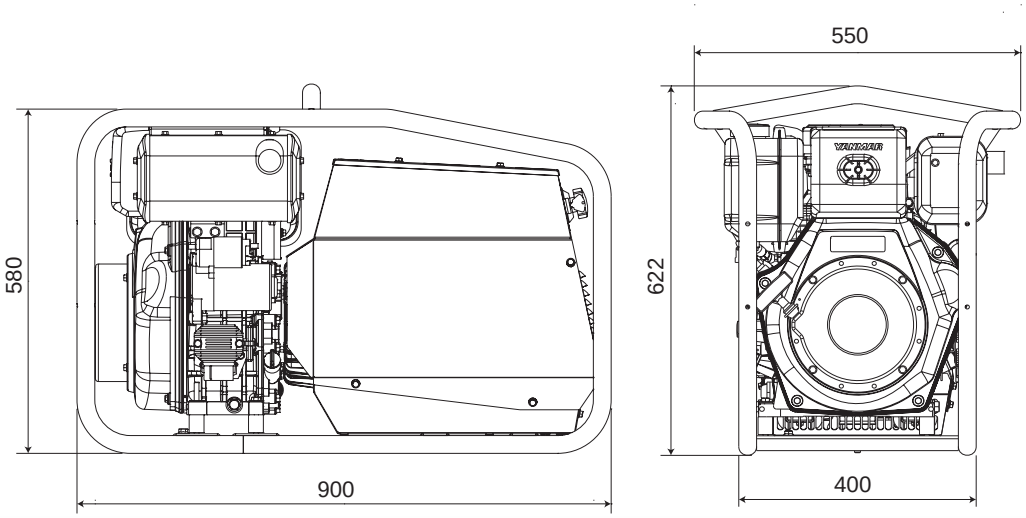
	VERSIONI		
	STANDARD	SCHUKO	230V/110V
1x400V 16A 3P+N+T	•	•	
1x230V 16A 2P+T	•		•
1x48V 32A 2P	•	•	
2x110V 16A 2P+T			•
1x230V 16A 2P+T Schuko		•	

WEIGHT - DIMENSIONS ACCESSORIES

DRY WEIGHT:
- 133 Kg

The welding machine pictured may include optional accessories.

DIMENSION PICTURE



OPTIONS ON REQUEST

- Welding cables: K190 (10+8m, 35mm²)
  K 200 (20+15m, 35mm²)
- Welding kit (mask, gloves, etc.)
- Manual trolley CTM 6/2
- Earthing kit

VERSION ON REQUEST

- SCHUKO version
- 230V/ 110V version

FACTORY INSTALLATION OPTIONS

- /

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS
2006/42 / EC (Machinery Directive)
2014/35 / UE (Low Voltage Directive)
2014/30 / UE (Electromagnetic Compatibility Directive)
IEC-EN 60974-1 Arc welding equipment - Welding power sources
IEC-EN 60974-10 Arc welding equipment - Electromagnetic compatibility (EMC) requirements

ISO 9001:2015 - Cert. 0192

WARRANTY
All devices are covered by the manufacturer's warranty.

Non-contractual document. Specification subject to change without notice.
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