



MADE IN ITALY

ENGINE DRIVEN WELDER CS 230 YSX CC/CV



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.

ENGINE 3000 RPM

4 STROKE, DIRECT INJECTION, NATURAL ASPIRATED				
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	/			
Cylinders / Displacement	1 / 435 cm ³ (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)	1.9 lt./h			
100 % to PRP	1.7 lt./h			
75 % to PRP	1.2 lt./h			
50 % to PRP	0.8 lt./h			
COOLING SYSTEM				
Total system cap only engine	/			
Fan air flow	/			
LUBRICATION SYSTEM				
Total oil system capacity	/			
Oil capacity in sump	1.6 lt.			
Oil consumption at full load	/			

EXHAUST SYSTEM Maximum exhaust gas flow 1 Max. exhaust gas temp. Maximum back pressure 4.3 kPa (0.043 bar 440 mmH₂0) External diameter exhaust pipe **ELECTRICAL SYSTEM** 0.8 kW Starter motor power Battery charging alternator cap. 15 A Cold start - 10°C With cold start aid **AIR FILTER** Dry Combustion air flow 1 HEAT REJECTED AT FULL LOAD To exhaust system 1 To water and oil / 1 Radiated to room To charge cooler

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diesel

electric

Chonner

Systen

(BCS) 03/2021

* Output powers according to ISO 3046-1



WELDING AND GENERATION

C.C. WELDING (CONSTANT CURRENT)

SMAW (STICK)/ GTAW (TIG) CC MODE			
Current range	20 ÷ 210 A		
Type of regulation	continue		
Duty cycle	210A 60% 180A 100%		
Open circuit voltage	68 V		
Arc Force Regulation	Si		

C.V. WELDING (CONSTANT VOLTAGE)

GMAW (MIG)/ FCAW (FLUX CORED) CV MODE			
Welding voltage	14 ÷ 44V		
Type of regulation	continuous		
Duty cycle	210A - 60% 180 A - 100%		

GENERAL SPECIFICATIONS

Fuel tank capacity	23		
Starter Battery	12 Vdc -37Ah / 330A CCA(EN)		
Fuel consumption (welding 60%)	1 l/h		
Running time (welding 60%)	20 h		
IP protection degree	IP 23		

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Guaranteed acoustic power LwA (pressure LpA)	91.2 dB(A) (66.2 dB(A) @ 7 m)
Measured acoustic power LwA (pressure LpA)	93 dB(A) (68 dB(A) @ 7 m)
Max. ambient temperature	/

A.C. GENERATION

ASYNCRONOUS THREE-PHASE, SELF-REGULATED, SELF-EXCITED, BRUSHLESS

Insulation class

AUXILIARY GENERATION

OUTPUT 1		OUTPUT 2		
Type of source	Three-phase	Type of source Single-phase		
Frequency	50 Hz	Frequency	50 Hz	
Apparent Power (Active Power)	6kVA (4.8kW)	Apparent Power (Active Power)	5kVA (4kW)	
Cos φ	0.8	Cos φ	0.8	
Voltage	400V	Voltage	230V SCHUKO	
Current	8.7A	Current	21.7A	

OUTPUT 3			
Type of source	Single-phase		
Frequency	50 Hz		
Apparent Power (Active Power)	2.5kVA (4kW)		
Cos φ	1		
Voltage	110V		
Current	22.7A		

/oltage 230V SCHUKO			
Current	21.7A		
	OUTPUT 4		
Type of source	/		
Frequency	1		
Apparent Power (Active Power)	/		
Cos φ	/		
Voltage	/		

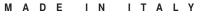
The use of the Auxiliary Generation is recommended for tools related to welding (wheels, electric hammers, lights, etc ...)

SIMULTANEOUS LOAD CHARACTERISTIC

WELDING CURRENT	≥ 150 A	125 A	100 A	75 A	50 A	0 A
POW. IN THREE PHASE 400V	0 kW	1.2 kW	2.2 kW	3 kW	3.5 kW	4.8 kW
POW. IN SINGLE PHASE 230V	0 kW	1.2 kW	2.2 kW	2.7 kW	3 kW	4 kW
POW. IN SINGLE PHASE 115V	0 kW	1 kW	1.3 kW	1.7 kW	2 kW	2.5 kW

Current







CONTROL PANEL

language

ENGINE

- Engine start and stop key
- Thermal circuit breaker for motor protection: 1x5A
- Low oil pressure warning light with engine stop
- Low fuel warning light with stop
- Battery charge warning light
- Multifunction digital instrument: AC voltmeter Frequency meter Total hour meter Partial hour meter (resettable) - Battery voltmeter
- Emergency stop button

Welding

- WAC control panel:
 - CC-CV welding mode switch
 - Welding current / voltage adjustment knob
 - Welding arc adjustment knob
 - Remote control connection connector. Automatic "local / remote" switching on insertion of the connector. 10 POLES
 - VRD / VRD LED
- Welding outlet sockets: 1 x Welding (+) 400A
 - 1 x Welding (-) 400A



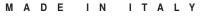
GENERATION (VERS. 400V/230V)

- Differential switch (400V / 230V)
- Thermal breakers for socket protection: 1x 16A for 230V 16A 2P + E CEE socket 1x 16A for 230V 16A 2P + T SCHUKO socket
- Output sockets: 1x 400V 16A 3P + N + T CEE IP44 1x 230V 16A 2P + T CEE IP44
 - 1x 230V 16A 2P + T SCHUKO IP54
- Earth terminal (PE)

GENERATION (VERS. 230V/110V)

- Differential switch (230V)
- Magnetothermic switch for 230V-16A socket
- Magnetothermic switch for 110V-32A CEE sockets and 110V-16A CEE socket (one for the 2 sockets)
- Output sockets: 1x 110V 32A 2P + T CEE IP44 1x 110V 16A 2P + T CEE IP44 1x 230V 16A 2P + T CEE IP44
- Earth terminal (PE)

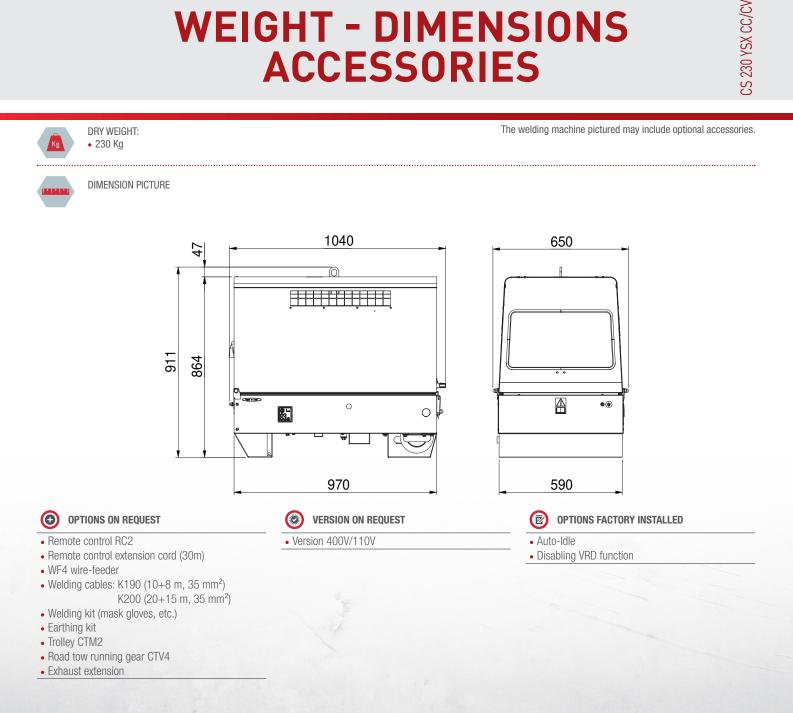






WEIGHT - DIMENSIONS ACCESSORIES

language



GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS 2006/42 / EC (Machines Directive) 2014/35 / EU (Low Voltage Directive) 2014/30 / EU (EMC Directive) 2000/14 / EC (Directive Acoustic Emission for machines for use outdoors) ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2015 - Cert. 0192

WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department. © MOSA - Viale Europa, 59 - 20090 Cusago (Milano) - Italy -phone +39-0290352.1 - fax + 39-0290390466 E-mail: info@mosa.it Web site: www.mosa.it

