

## ENGINE DRIVEN WELDER CS 230 YSX CC/CV



Radiated to room

To charge cooler

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Oil consumption at full load \* Output powers according to ISO 3046-1

Total system cap. - only engine

0.8 lt./h

1

1

/

1.6 lt.

50 % to PRP

Fan air flow

**COOLING SYSTEM** 

LUBRICATION SYSTEM Total oil system capacity

Oil capacity in sump



# **WELDING AND GENERATION**

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### 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		

Cos φ	0.8			
Voltage 230V SCHUKO				
Current 21.7A				
OUTPUT 4				
Type of source	1			
Frequency	/			
Apparent Power (Active Power)	/			
Cosio	1			

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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

Voltage

Current







# **CONTROL PANEL**

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### 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**

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#### **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

