

ENGINE DRIVEN WELDER CS 350 KSX CC/CV

language

The images are for reference

MOSA

WELDING PROCESS



(STICK) Gas Tungsten Arc Welding GTAW (TIG)

Shielded Metal Arc welding SMAW

Gas Metal Arc Welding GMAW (MIG)





FEATURES

- Arc welding source in D.C. welding
- High frequency welding current and voltage control
- A.C. generator, single-phase and three-phase
- Aux power also available while welding
- EP7 engine protection
- MOSA Power optimiser
- Large tank (38 I)
- Bunded base

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cooled

- Emergency stop button
- · Meets EC directives for noise and safety

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	KOHLER KD 477/2			
* Stand-By net power	14 kWm (19 hp)			
* PRP net power	/			
* COP net power	/			
Cylinders / Displacement	2 / 954 cm ³ (0.954 lt.)			
Bore / Stroke	90 / 75 (mm)			
Compression ratio	19:1			
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/			
Speed governor type	Mechanical			
FUEL CONSUMPTION				
110 % (Stand-by power)	4.1 lt./h			
100 % to PRP	3.7 lt./h			
75 % to PRP	2.8 lt./h			
50 % to PRP	1.8 lt./h			
COOLING SYSTEM				
Total system cap only engine	/			
Fan air flow	13.3 m ³ /min.			
LUBRICATION SYSTEM				
Total oil system capacity	/			
Oil capacity in sump	3 lt.			
Oil consumption at full load	< 0.011 kg./h			

electric

sterter

Choppe

System

super

silenced

EXHAUST SYSTEM	
Maximum exhaust gas flow	3.48 m ³ /mim.
Max. exhaust gas temp.	600 °C
Maximum back pressure	6.7 kPa (0.067 bar)
External diameter exhaust pipe	1
ELECTRICAL SYSTEM	12 Vdc
Starter motor power	1.8 kW
Battery charging alternator cap.	25 A
Cold start	1
With cold start aid	- 15°C 1000 rpm / - 8°C 3000 rpm
AIR FILTER	in oil bath
Combustion air flow	1.26 m ³ /min.
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	1
Radiated to room	/
To charge cooler	1



* Output powers according to ISO 3046-1



WELDING AND GENERATION

C.C. WELDING (CONSTANT CURRENT)

SMAW (STICK)/ GTAW (TIG) CC MODE			
Current range	20A ÷ 350A		
Type of regulation	1		
Duty cycle	350A/35% 300A/60% 250A/100%		
Open circuit voltage	66 Vcc		
Arc Force Regulation	Si		

C.V. WELDING (CONSTANT VOLTAGE)

GMAW (MIG)/ FCAW (FLUX CORED) CV MODE				
Welding current	/			
Type of regulation	14V - 44V			
Service	300A/60% 250A/100%			
Duty Cycle	66 Vcc			

GENERAL SPECIFICATIONS

Fuel tank capacity	38
Starter Battery	/
Fuel consumption (welding 60%)	2.5 l/h
Running time (welding 60%)	15.2 h
IP protection degree	IP 23

Guaranteed acoustic power LwA (pressure LpA)	94 dB(A) (69 dB(A) @ 7 m)
Measured acoustic power LwA (pressure LpA)	95 dB(A) (70 dB(A) @ 7 m)
Max. ambient temperature	/

A.C. GENERATION

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

Insulation class

GENERAZIONE AUSILIARIA

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OUTPUT 1			OUTPUT 2		
Type of source	Three-phase	Type of source	Single-phase		
Frequency	50 Hz	Frequency	50 Hz		
Apparent Power (Active Power)	10kVA (8kW)	Apparent Power (Active Power)	2.5kVA (2kW)		
Cos φ	0.9	Cos φ	0.9		
/oltage	400V	Voltage	110V		
Current	14.4 A	Current	22.7 A		

OUTPUT 3				
Type of source	Single-phase			
Frequency	50 Hz			
Apparent Power (Active Power)	5kVA (5kW)			
Cos φ	0.9			
Voltage	230V			
Current	21.7 A			

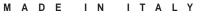
Gurrent	22.1 A
	OUTPUT 4
Type of source	Single-phase
Frequency	50 Hz
Apparent Power (Active Power)	5kVA (5kW)
Cos φ	0.9
Voltage	48V
Current	104 A

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

SIMULTANEOUS LOAD CHARACTERISTIC

Welding Current	0	50	100	150	200	250	300	350
POW. IN THREE PHASE 400V	8.0	8.0	7.0	5.5	3.5	2.0	0	0
POW. IN SINGLE PHASE 230V	4.0	4.0	4.0	4.0	3.5	2.0	0	0







CONTROL PANEL

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ENGINE

• EP7 controller

- Thermal circuit breaker for motor protection: 1x30A
- Thermal cut-out for motor protection: 1x5A
- Hour counter
- Fuel level
- Autoldle switch

FEATURES CONTROLLER EP7				
Caratteristiche	 Engine start and stop key Low oil pressure shutdown Low oil level shutdown Fuel reserve stop Battery charge alarm Signaling LEDs 			

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
 - ArcForce switch
 - VRD / VRD LED
- Welding outlet sockets: 1 x Welding (+) 400A 1 x Welding (-) 400A



GENERATION

- Differential switch (400V / 230V)
- Thermal breakers for socket protection
- Voltmeter
- Earth terminal (PE)

SOCKET COMBINATIONS AVAILABLE

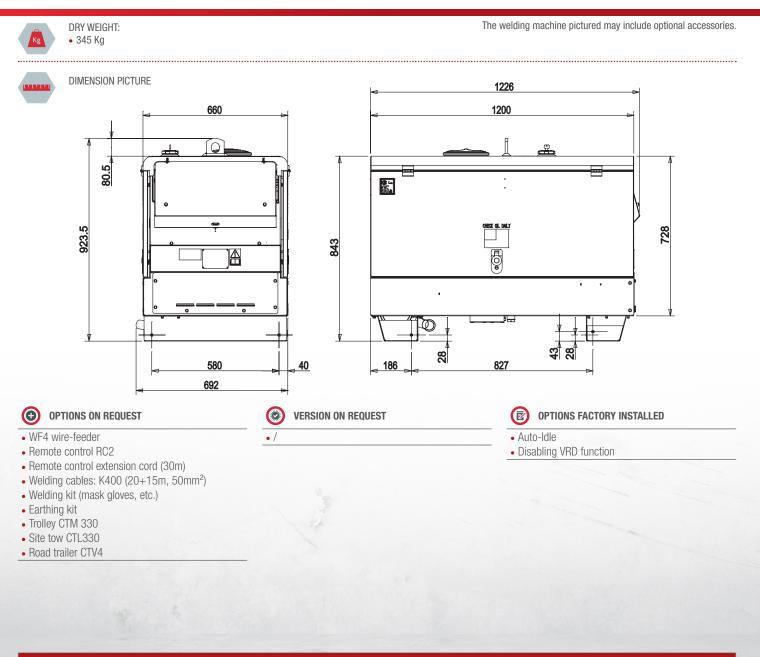
	VERSIONS					
	400V/230V/48V	400V/230V	400V/230V/110V	400V/250V AUSTRALIA		
1x400V 32A 3P+N+T CEE	•	•	•			
1x230V 32A 2P+T CEE	•	•				
1x230V 16A 2P+T CEE		•	•			
1x230V 16A 2P+T SCHUK0		•		and the second		
1x110V 32A 2P+T CEE			•	and states and the		
1x110V 16A 2P+T CEE			•			
1x48V	•	and the second sec				
1x400V 32A 3P+N+T AUS IP66				•		
2x230V 15A 2P+T AUS IP66		the second second		•		



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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.

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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

