

AVISO and ADMIRAL

A dedicated TIG welding range of installations ideal for yard or workshop applications, DC or AC/DC TIG welding.



**Thyristor
technology**

AVISO

ADMIRAL 350 W

ADMIRAL 500 W AC/DC



AVISO range of thyristor controlled DC and AC/DC

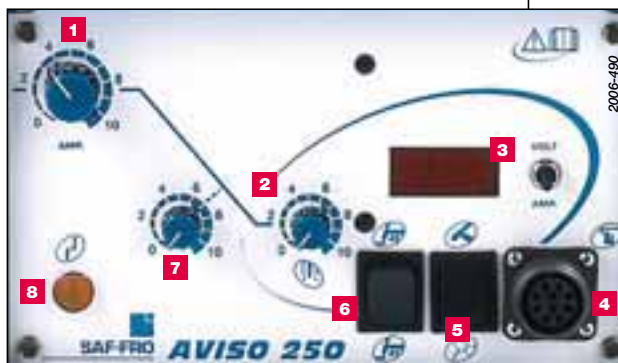


Using a well proven thyristor technology, the AVISO range of machines are ideally suited for yard application and particularly for maintenance operation. Available with 250 or 350 amps in DC mode, these three phase installations will provide you with perfect TIG direct current welding and can also be used for welding with coated electrodes for non alloyed and stainless steel.

Thyristor technology

Power and reliability

- Easy to use
- Regulated current
- HF striking
- Excellent arc stability
- Welding with cellulosic electrodes
- Large wheels
- Water cooling in option (350 model)



- 1** Current adjustment
- 2** Post-gas adjustment
- 3** Selection and read-out of voltage or welding current
- 4** Remote control connection
- 5** TIG or coated electrodes welding selector
- 6** Welding selector 2T / 4T
- 7** Arc fading adjustment
- 8** Defect indicator

Technical characteristics	AVISO 250	AVISO 350 / 350 W
Primary		
Threphase power supply	230/400 V - 50/60 Hz	230/400 V - 50/60 Hz
Consumption at max. current	35 A (230 V) - 20 A (400 V)	61 A (230 V) - 35 A (400 V)
Secondary		
No-load vottage	97 V	103 V
Welding current	7 to 250 A	5 to 350 A
Duty cycle at 40 °C	at 100 %	140 A
	at 60 %	180 A
	at 30 %	250 A at 35 %
Protection index	IP 23	
Maximum electrode diameter	5 mm	6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	650 x 460 x 720 mm
	Net weight	104 kg
Standards	EN 60974-1; EN 60974-10	
To order		
Power source without accessories	W 000 263 713	W 000 263 714
Package*	W 000 305 067	W 000 305 068
Options		
Water cooling unit	-	W 000 305 027
Manual remote control	W 000 305 059	
Foot pedal	W 000 305 060	
Cylinder support	W 000 305 063	Built in

* Power source + torch PROTIG + pressure regulator (for French market)

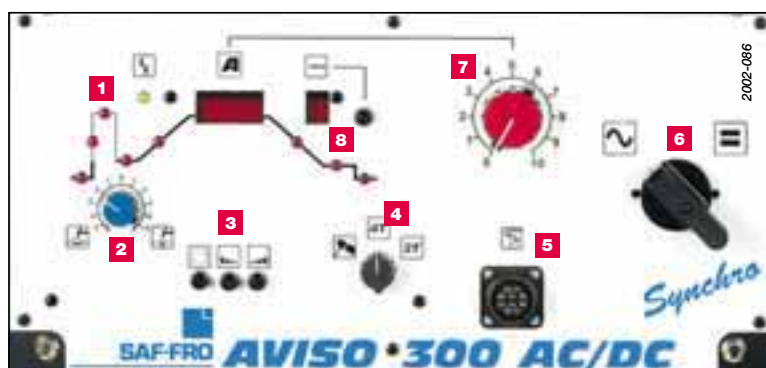
welding installations



AVISO 300 AC/DC Synchro is a multi-voltage power source (220/380/415 V) with a robust reinforced structure and presenting excellent arc stability thanks to the arc stabilizer fitted as standard. Machine is available in both stand alone air cooled version or water cooled version on trolley.

Versatile

- HF striking with adjustable striking dynamics
- Mode 2T/4T/MMA (coated electrode)
- Complete TIG welding cycle with LED
- Welding in pulsed mode with remote control
- Digital display of the parameters
- Memory for 10 programs



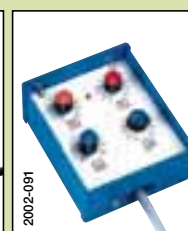
- 1** Flashing current during striking
- 2** Adjustment of the balance
- 3** Cycle navigator
- 4** Choice of the welding mode
- 5** Connection of a remote controller
- 6** AC or DC selector
- 7** Adjustment of the intensity
- 8** Selection, memorization and recall of the stored programs

Technical characteristics		AVISO 300 AC/DC
Primary		
Single phase power supply		230/380/415 V - 50/60 Hz
Consumption at max. current		112 A (230 V) / 65 A (380 V) / 62 A (415 V)
Secondary		
No-load voltage		82 V
Welding current		10 - 310 A (DC) - 30 - 310 A (AC)
Duty cycle at 40 °C	at 100 %	160 A
	at 60 %	205 A
	at 35 %	310 A
Protection index		IP 23 S
Maximum electrode diameter		6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	760 x 515 x 875 mm
	Net weight	182 kg (air) - 229 kg (water cooled on trolley)
Standards		EN 60974-1; EN 60974-10
To order		
Power source without accessories		W 000 264 210
Power source with water cooled unit on trolley		W 000 264 211
Options		
Remote controller	Box	W 000 305 057
	Box for pulsed current	W 000 305 055
Extension cable 15 m for remote		W 000 305 056
Trolley		W 000 305 051
Cylinder support		Built in

Options



Remote controller
Cat. no:
W 000 305 057



Remote controller for pulsed current
Cat. no:
W 000 305 055

ADMIRAL: modern inverter technology



ADMIRAL 350 W is a powerful and modern three phase inverter multipurpose TIG DC welding installation. Compact and easily manoeuvrable with its large wheels, ADMIRAL will allow you welding in DC- and DC+, continuous welding, TIG spot, pulsed TIG and with coated electrode.

Compact and powerful

- Easy to use
- Regulated current
- HF striking
- Excellent arc stability
- Welding with cellulosic electrodes
- Large wheels
- Compact installation with integrated cooling unit



- 1 Printing
- 2 Access to the menu and save
- 3 Display of the welding parameters
- 4 On/off switch
- 5 Choice of the welding cycle
- 6 Adjustment of the parameters value
- 7 Remote control connection

Description of the cycle

- | | |
|-----------------------------------|---------------------|
| a Pre-gas | e Arc slope-out |
| b Pre-weld current | f Post-weld current |
| c Slope-up of the welding current | g Post-gas |
| d Welding current | |

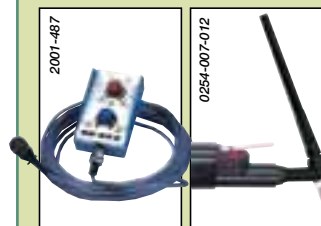
Technical characteristics		ADMIRAL 350 W
Primary		
Three-phase power supply		400 V +/- 10% - 50/60 Hz
Consumption at max. current		21.7 A (TIG) - 28.6 A (MMA)
Secondary		
No-load voltage		99 V
Welding current		4 - 350 A
Duty cycle at 40 °C	at 100 %	220 A
	at 60 %	260 A
	at 25 %	350 A
Protection index		IP 23
Maximum electrode diameter		6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	1 090 x 610 x 970 mm
	Net weight	99 kg
Standards		EN 60974-1; EN 60974-10
To order		
Power source without accessories		W 000 263 715
Package*		W 000 305 070
Options		
Remote controller	BB BOX (MMA-TIG)	W 000 305 112
	Pulsed current	W 000 305 064
Foot remote control		W 000 305 065
Power box: auto transformer 230/400 V three phase Allows to supply the machine with 230 V three phase		W 000 305 106



Options



POWER BOX: allows to supply the power sources (inverters) with 230 V three phase



Remote controller
BB-BOX

Torch
PROTIG

* Power source + torch PROTIG + pressure regulator (for French market)

TIG DC or AC/DC welding up to 500 amps.

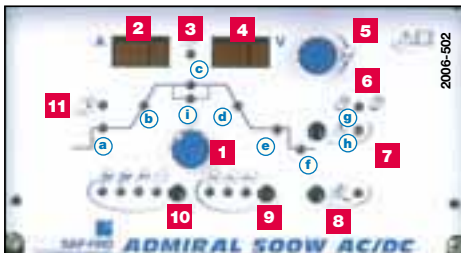


ADMIRAL 500 W AC/DC is a high power AC/DC TIG and coated electrode manual welding machine providing excellent welding performances in all conditions and up to 400 amps at 100% duty cycle. Doted with the latest Digital Signal Processor (DSP) technology, AC noise reduction and enhance performance are provided through a range of wave-form setting options.



High power (400 A at 100% and 500 A maximum)

- Numerical control of the process with DSP (Digital Signal Processor)
- memorization of 15 programs
- multi-process: DC or AC TIG, TIG spot, pulsed TIG coated electrode DC+, DC- or AC
- compact installation with integrated cooling unit
- AC noise reduction and enhanced performance by a range of wave-form setting options
- in TIG, single-electrode use possible, whether in DC or AC welding mode (cerium electrode with sharpened point) to enhance penetration power of arc



- 1 Parameter selector
- 2 Current display
- 3 Memory display (last welding performed)
- 4 Voltage display
- 5 Parameter setting
- 6 Balance adjustment (cleaning time/penetration)



- 7 Electrode size setting
- 8 For recording and reading programmes
- 9 Choice of welding process
- 10 Choice of welding mode
- 11 Pulsed function


Description of the cycle

- | | |
|-----------------------|----------------------------|
| (a) Pre-weld current | (f) Post-gas |
| (b) Slope up | (g) Balance |
| (c) Welding current | (h) Electrode diameter |
| (d) Arc slope out | (i) Second trigger current |
| (e) Post weld current | |

Technical characteristics:		ADMIRAL 500 W AC/DC
Primary		
Three-phase power supply		230 / 400 V 50-60 Hz
Consumption at max. current		48 A (230 V) - 36 A (400 V)
Secondary		
No-load voltage		100 V
Welding current		4 to 500 A (TIG) - 70 to 350 A (MMA)
Duty cycle at 40 °C	at 100 %	400 A (TIG) - 350 A (MMA)
	at 60 %	450 A (TIG) - 400 A (MMA)
	at 35 %	500 A (TIG) - 450 A (MMA)
Protection index		IP 23
Maximum electrode diameter		6.3 mm
Dimensional characteristics	Dimensions (L x W x H)	960 x 590 x 1 170 mm
	Net weight	149 kg
Standards		EN 60974-1; EN 60974-10
To order		
Power source without accessories		W 000 263 716
Package*		W 000 261 702
Options		
Remote controller	Frequency, balance	W 000 305 052
	Pulsed current, frequency, cycle ratio	W 000 305 053
Foot pedal		W 000 305 054


* Power source + torch PROTIG + pressure regulator (for French market)

Options



3638-044

Remote controller - Frequency, balance



3638-047

Remote controller - Pulsed current, frequency, cycle ratio



Contacts

BELGIUM

AIR LIQUIDE WELDING BELGIUM SA
Z.I. West Grijsen - Grijsenlaan 5 - 3300 TIENEN
Tel.: +32 16 80 48 20 - Fax: +32 16 78 29 22

CHINA

SAF SHANGHAI REP. OFF.
Rm. 722, Pine City Hotel
777 Zhao Jia Bang Lu - SHANGHAI 200032
Tel.: +86 21 64 43 89 69 - Fax: +86 21 64 43 58 97

CZECH REPUBLIC

AIR LIQUIDE WELDING CZ S.R.O.
Podnikatelská 565 - Areál SVUM
190 11 PRAHA 9 - Bůchovice
Tel.: +420 274 023 163 - Fax: +420 274 023 233

FRANCE

AIR LIQUIDE WELDING FRANCE
13, rue d'Épluches - BP 70024 Saint-Ouen l'Aumône
95315 CERGY PONTOISE Cedex
Tel.: +33 1 34 21 33 33 - Fax: +33 1 34 21 31 30

HUNGARY

AIR LIQUIDE WELDING HUNGARY - Kft
Krisztina krt. 39/b - H-1013 Budapest
Tel.: +36 1 339 8650 - Fax: +36 1 339 8649

ITALY

AIR LIQUIDE WELDING ITALY
Via Torricelli 15/A - 37135 VERONA
Tel.: +39 045 82 91 511 - Fax: +39 045 82 91 536

LUXEMBOURG

AIR LIQUIDE WELDING LUXEMBOURG S.A.
5 rue de la Déportation - BP 1385 - L-1415 LUXEMBOURG
Tel.: +352 48 54 56 - Fax: +352 48 54 57

MALAYSIA

SAF-OERLIKON MALAYSIA SDN BHD
No 10, Jalan TPP 5/1 - Taman Perindustrian Puchong
47100 PUCHONG, SELANGOR
Tel.: +603 8060 8638 - Fax: +603 8061 620

NETHERLANDS

AIR LIQUIDE WELDING NETHERLANDS
Rudonk 6 B - NL 4824 AJ BREDA
Tel.: +31 76 541 00 80 - Fax: +31 76 541 58 96

POLAND

AIR LIQUIDE WELDING POLSKA - SP. Z.o.o
UL. Porcelanowa 10 - 40-246 KATOWICE
Tel.: +48 32 609 04 50 - Fax: +48 32 609 04 60

PORTUGAL

AIR LIQUIDE SOLDADURA LDA
Rua Dr. António Loureiro Borges, 4-2° Arquiparque
Miraflores - 1495-131 ALGÉS
Tel: +351 21 41 64 900 - Fax: +351 21 41 69 40

ROMANIA

DUCTIL
Aleea Industriilor Nr 1 - 120224 BUZAU
Tel.: +40 238 722 058 - Fax: +40 238 716 861

RUSSIA

AIR LIQUIDE WELDING
17 Vorontsovskaya Str. - 109147 MOSCOW
Tel.: +7 495 641 28 98 - Fax: +7 495 641 28 91

SLOVAKIA

AIR LIQUIDE WELDING CENTRAL EUROPE S.R.O.
Prazska 35 - 94901 NITRA
Tel.: +421 37 69 24 601 - Fax: +421 37 65 19 919

THAILAND

AIR LIQUIDE WELDING THAILAND Co Ltd
40 Moo 6 - Ramindra Road Km. 9.5
KHANNAYAO, BANGKOK 10230
Tel.: +66 2 9432250 - Fax: +66 2 9432256

U.A.E.

AIR LIQUIDE WELDING MIDDLE EAST FZE
Jebel Ali free zone warehouse No. FZS1AH05
P.O. BOX 18734 - Jebel Ali - DUBAI
Tel.: +971(0)48861606 - Fax: +971(0)48861608

UKRAINE

AIR LIQUIDE WELDING UKRAINE, Llc.
1 rue Proskura - bureau 106A - 61070 KHARKOV
Tel.: +380 577 546 867 - Fax: +380 577 546 867

For other countries please contact our Export departments

ALW Export Department Italy

Via Torricelli15/A
37135 VERONA
Tel: +39 045 82 91 511- Fax: +39 045 82 91 536
E-mail: export.alwitaly@airliquide.com

ALW Export Department France

13, rue d'Épluches
BP 70024 Saint Ouen l'Aumône
95315 CERGY-PONTOISE Cedex
Tel: +33 1 34 21 33 33 - Fax: +33 1 30 37 19 73
E-mail: export.alwfrance@airliquide.com

www.saf-fro.com



www.airliquide.com

Founded in 1902, Air Liquide is the world leader in industrial and medical gases and related services. The company has offices in 75 countries and employs a work force of 40,000. Drawing on constantly renewed technologies, Air Liquide develops groundbreaking solutions used in making countless everyday products and in helping to preserve life.