



WELD THE WORLD

Multi Power 184

Instruction manual







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1 INTRODUCTION

 	IMPORTANT!
<p><i>This handbook must be consigned to the user prior to installation and commissioning of the unit. Read the "General prescriptions for use" handbook supplied separately from this handbook before installing and commissioning the unit.</i></p> <p><i>The meaning of the symbols in this manual and the associated precautionary information are given in the "General prescriptions for use".</i></p> <p><i>If the "General prescriptions for use" are not present, it is mandatory to request a replacement copy from the manufacturer or from your dealer.</i></p> <p><i>Retain these documents for future consultation.</i></p>	

LEGEND

	DANGER!
<i>This pictogram warns of danger of death or serious injury.</i>	

	WARNING!
<i>This pictogram warns of a risk of injury or damage to property.</i>	

	CAUTION!
<i>This pictogram warns of a potentially hazardous situation.</i>	

	INFORMATION!
<i>This pictogram gives important information concerning the execution of the relevant operations.</i>	

- ⤵ This symbol identifies an action that occurs automatically as a result of a previous action.
- ① This symbol identifies additional information or a reference to a different section of the manual containing the associated information.
- § This symbol identifies a reference to a chapter of the manual.
- *1 The symbol refers to the associated numbered note.

NOTES

The figures in this manual are purely guideline and the images may contain differences with respect to the actual equipment to which they refer.

1.1 PRESENTATION

Multi Power 184 is an inverter DC TIG/MMA portable welding power source.

The sturdiness of the components of this unit makes it a reliable working companion for workshop and outdoor applications.

The available DC TIG functions and digital control make this unit ideal for maintenance, building construction, and light metalwork.

In MMA welding the Hot Start and Arc Force functions are adjustable and they allow improved arc striking, a flatter bead and more uniform weld.

The Anti Sticking function makes it possible to detach the electrode rapidly from the workpiece in the event of accidental sticking.

Up to 4,00mm diameter electrode welding is possible in MMA.

The power source is designed to guarantee safety and flexibility through the following features:

OVERCUT: in case of over-voltage in the supply line, the supply to the power source is cut off.

The overcut protection protects electronic parts of the machine against damage caused by voltage surges.

CURRENT AUTO-CALIBRATION: the power source works at a supply voltage ranging between 115V~±15%/50-60Hz and 230V~±15%/50-60Hz.

The maximum value of the adjustable welding current is automatically limited based on the supply voltage measured when the power source is switched on.

DERATING: Derating limits current during welding when supply voltage drops below the limit value of 190Vac.





This limits current input so as not to overload the inverter and keeps the welding arc stable.

FANS: Fan speed varies based on power source internal temperature measured by thermal sensors.

This function brings the following improvements:

- reduction of noise.
- reduction of dust extracted (cleaner equipment, less maintenance).

The welding modes and procedures available are those indicated in the table.

MODE		PROCEDURE	
	MMA		
	CELLULOSE		
	TIG CONTINUOUS		2 STROKE LIFT-ARC (2T)

Accessories that can be connected to the unit:

- manual remote control for remote adjustment of the welding current.

2 INSTALLATION



DANGER!
Lifting and positioning

Read the warnings highlighted by the following symbols in the “General prescriptions for use”.

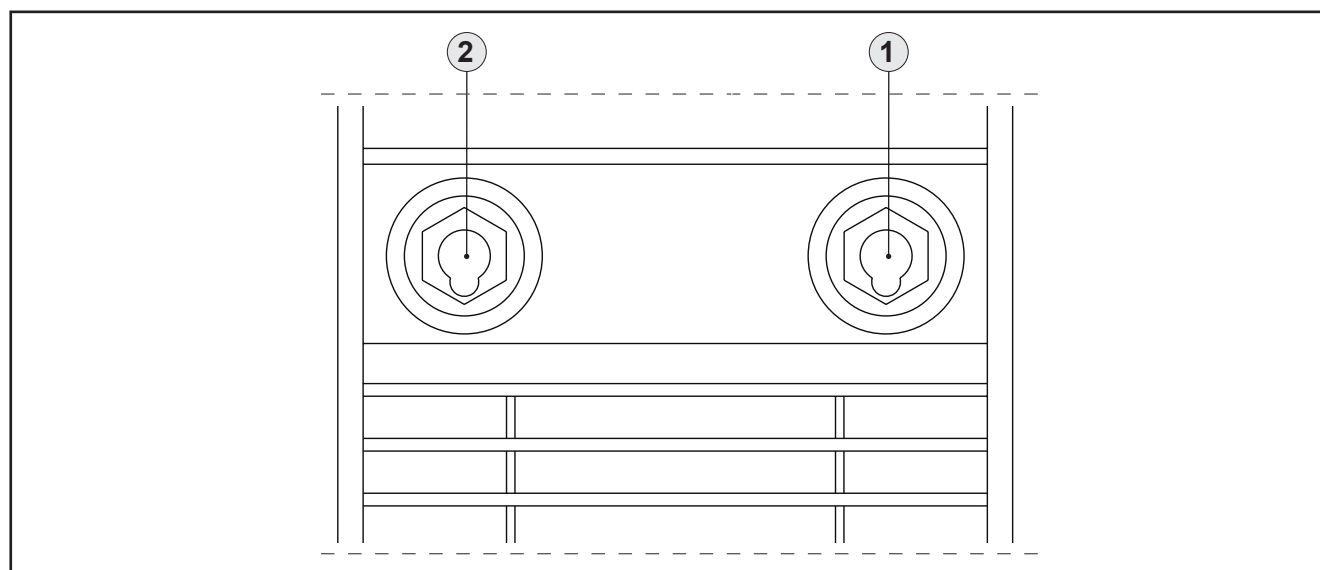


2.1 CONNECTIONS TO THE MAINS POWER SUPPLY

The characteristics of the mains power supply to which the equipment shall be connected are given in the chapter entitled “TECHNICAL DATA”.

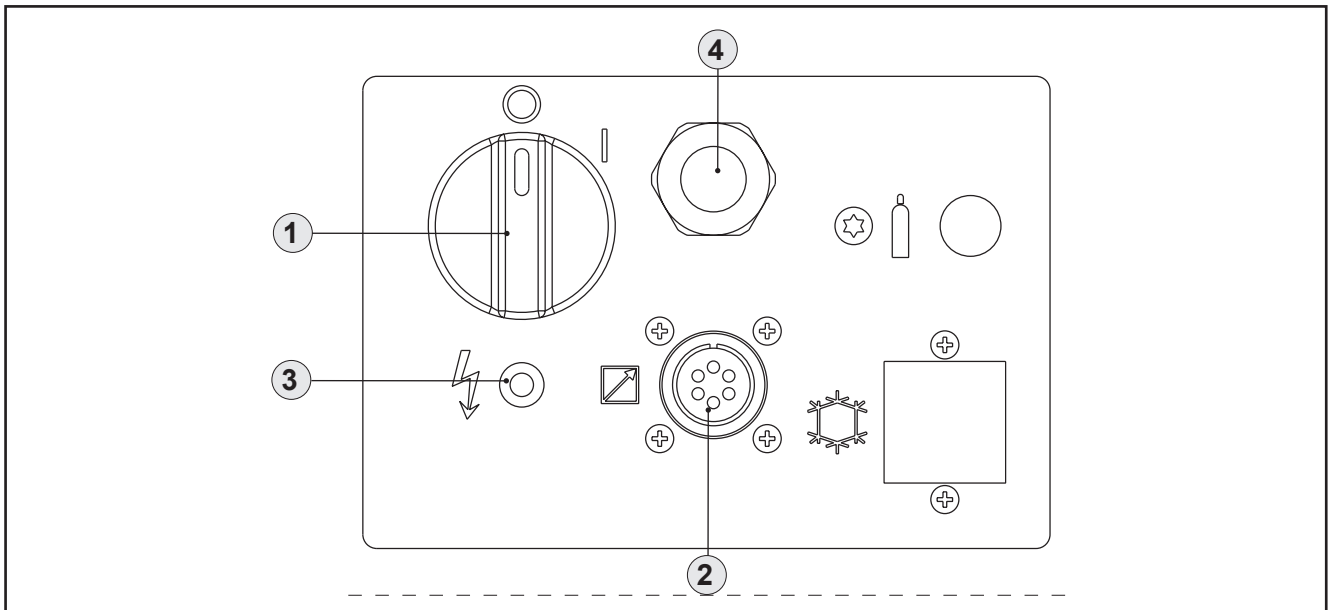
The machine can be connected to motor-generators provided their voltage is stabilised.
Connect/disconnect the various devices with the machine switched off.

2.2 FRONT PANEL



- Negative pole welding socket.[Item 1].
- Positive pole welding socket.[Item 2].

2.3 REAR PANEL



- Welding power source ON/OFF switch [Item 1].
- Remote control connector [Item 2].
- Warning LED for overcut protection triggering [Item 3].
- Power cable. [Item 4].
 - Total length (including internal part): 2.5 m
 - Number and cross section of wires: 3 x 2.5 mm²
 - Type of plug supplied: Schuko

2.4 PREPARING FOR MMA WELDING

1. Set the welding power source ON/OFF switch to “O” (unit off).
2. Plug the power cable plug into a mains socket.
3. Choose the electrode based on the type of material and thickness of the workpiece to be welded.
4. Insert the electrode in the electrode holder.
5. Connect the electrode holder clamp plug to the following welding socket: Positive pole welding socket.
6. Connect the earth clamp plug to the following welding socket: Negative pole welding socket.
7. Connect the earth clamp to the workpiece being processed.



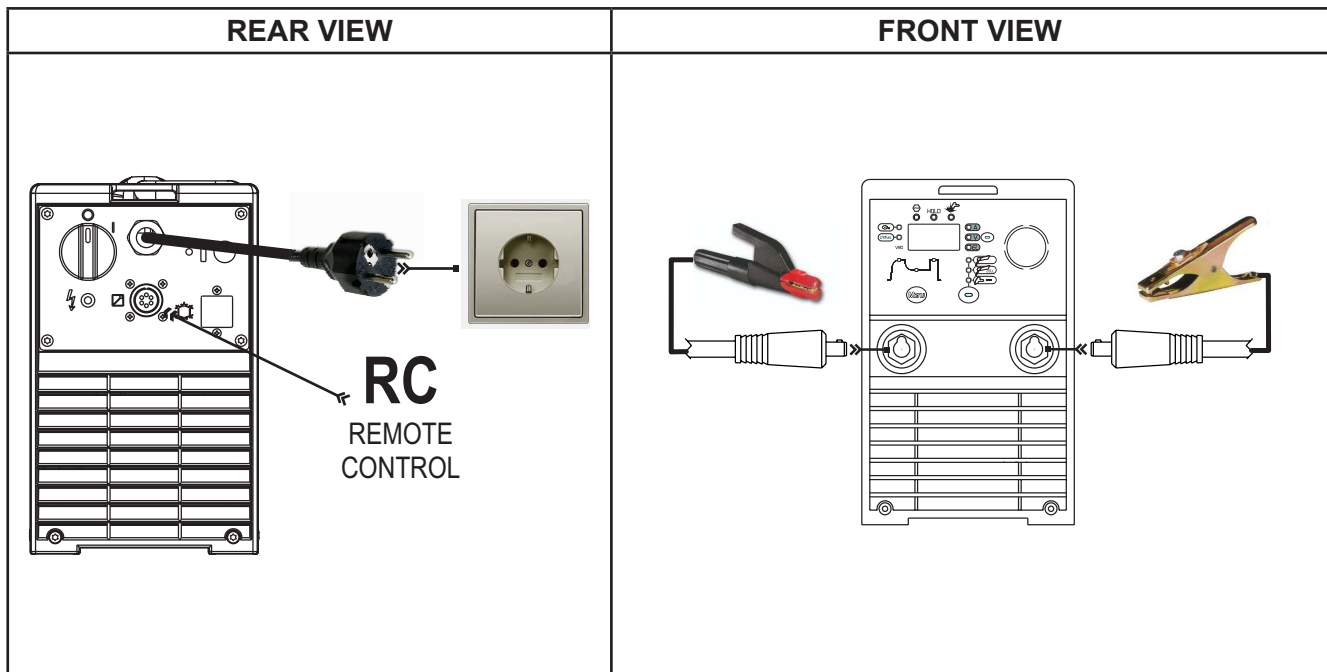
DANGER!

Electric shock hazard!

Read the warnings highlighted by the following symbols in the “General prescriptions for use”.



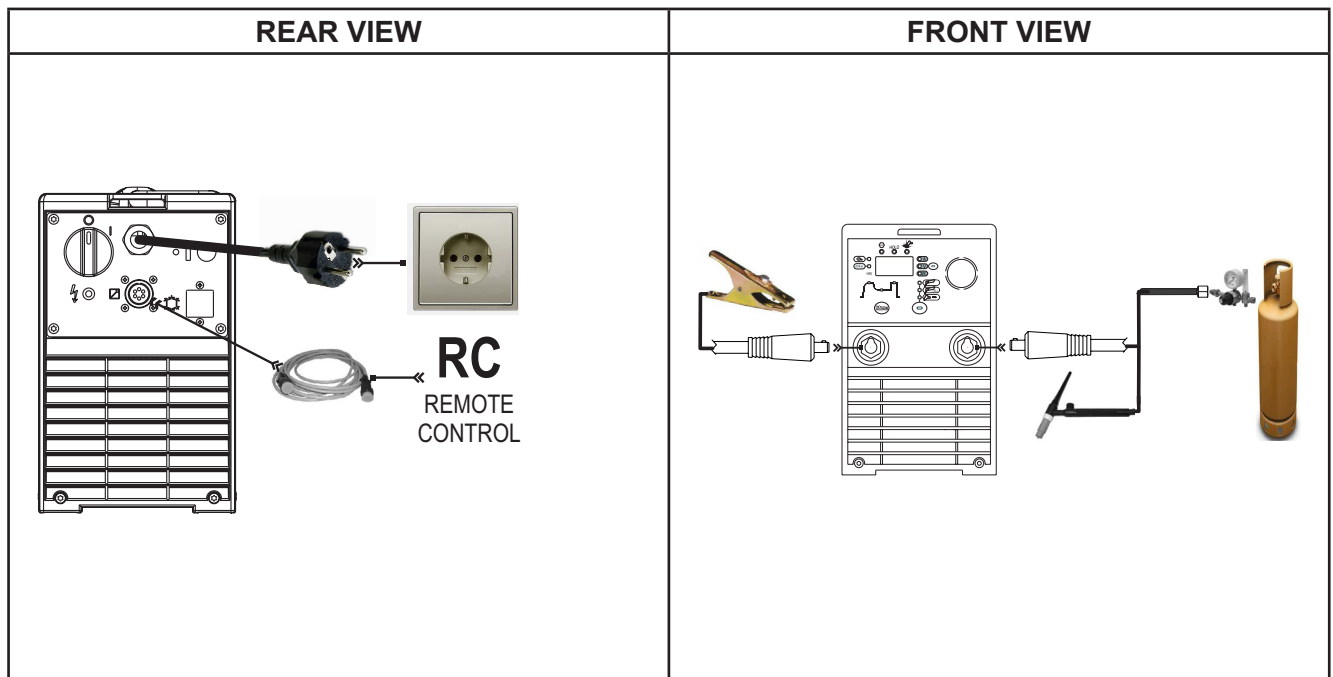
8. Set the welding power source ON/OFF switch to “I” (unit on).
 9. Select the following welding mode on the user interface: MMA
 10. Set the required welding parameter values on the user interface.
- ➡ When the remote control [RC] is connected and enabled, the welding current can be adjusted.
The system is ready to start welding.



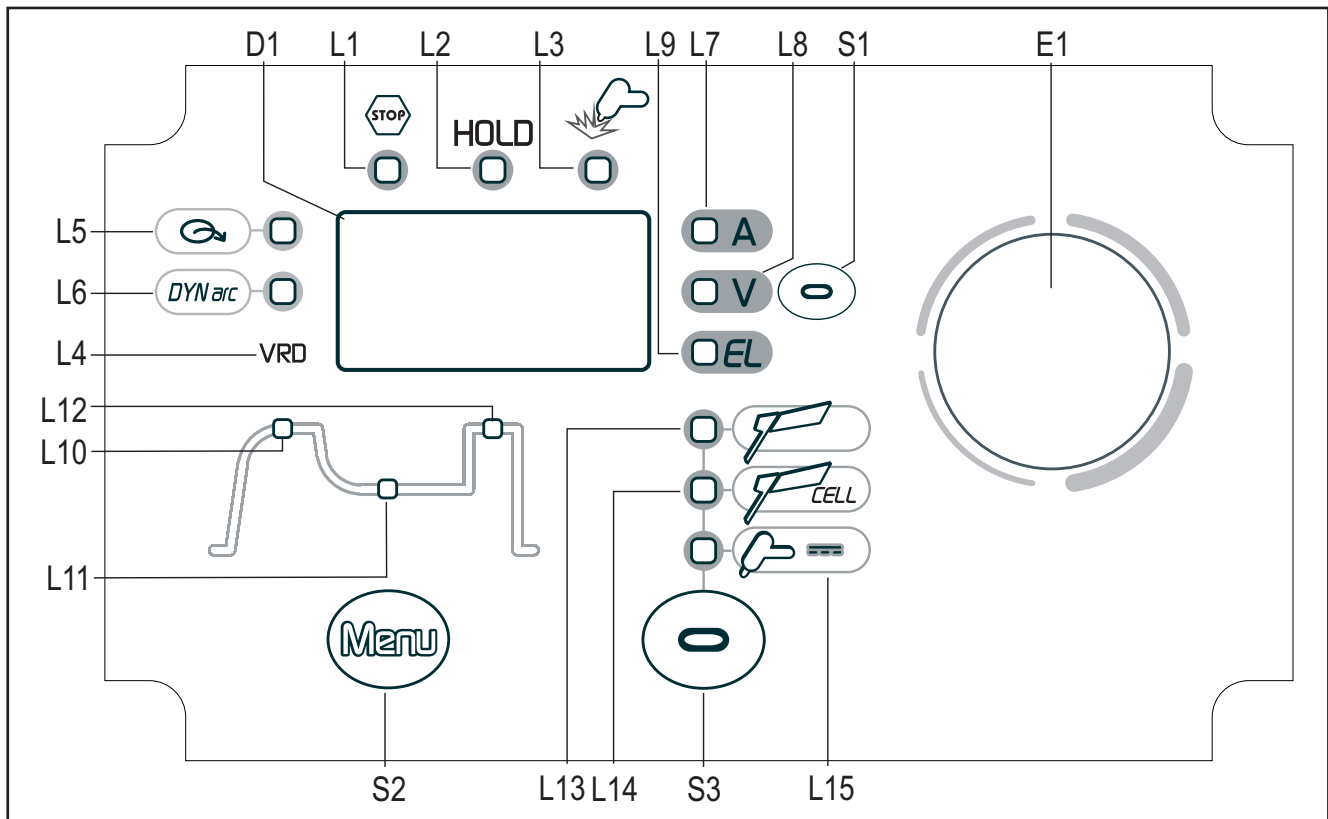
2.5 PREPARING FOR TIG WELDING

1. Set the welding power source ON/OFF switch to "O" (unit de-energized).
2. Plug the power cable plug into a mains socket outlet.
3. Connect the gas hose from the welding gas cylinder to the rear gas connection.
4. Open the cylinder gas valve.
5. Connect the gas hose of the welding torch to the front gas connection.
6. Connect the electrode holder clamp plug to the following welding socket: Negative pole welding socket.
7. Choose the electrode based on the type of material and thickness of the workpiece to be welded.
8. Insert the electrode in the TIG torch.
9. Connect the earth clamp plug to the following welding socket: Positive pole welding socket.
10. Connect the earth clamp to the workpiece being processed.
11. Set the welding power source ON/OFF switch to "I" (unit powered).
12. Select the following welding mode on the user interface: DC TIG
13. Use the flow control valve to adjust the flow of gas as required while the gas is flowing out.
14. Set the required welding parameter values on the user interface.









➡ When the remote control pedal is connected and the relative locking screw is tightened the welding current will vary in relation to the pressure exerted on the pedal.
The system is ready to start welding.



3 USER INTERFACE



CODE	SYMBOL	DESCRIPTION
L1		This LED illuminates to show an anomaly in the operating conditions.
L2	HOLD	When this LED illuminates the last voltage and current average values measured during welding are shown on following displays: D1 The "HOLD" function is cleared when a new weld is started or when any setting is changed.
L3		This LED illuminates to confirm the presence of power on the output sockets.
L4	VRD	Illumination shows that the following function has been activated: reduction of the output voltage (U0)
L5		This LED indicates that the current reference setting is imposed by the remote controller.
L6	DYN arc	DC TIG mode: Illumination shows that the following function has been activated: DYNAMIC ARC
L7	A	Illuminates to show a value in the following unit of measurement: AMPERES
L8	V	Illuminates to show a value in the following unit of measurement: VOLTS
L9	EL	When this LED illuminates the following parameter can be set: ELECTRODE TYPE
L10		When this LED illuminates the following parameter can be set: HOT-START
L11		When this LED illuminates the following parameter can be set: WELDING CURRENT
L12		When this LED illuminates the following parameter can be set: ARC FORCE

L13		This LED illuminates to show that the following welding mode is selected: MMA
L14		This LED illuminates to show that the following welding mode is selected: CELLULOSE
L15		This LED illuminates to show that the following welding mode is selected: TIG CONTINUOUS
D1		Parameters/functions setting: The display shows the selected parameter.
		Welding: The display shows the effective amperes or volts value during welding.
		HOLD function: The display shows the current of voltage average values of the last welding process.
E1		Parameters/functions setting: The encoder provides the facility to alter the selected parameter.
		Welding: The encoder allows the welding current to be modified.
S1		Parameters/functions setting: This button selects the parameter to be shown on the following display: D1 Possible choices: -(A) Preset welding current -(V) No-load voltage -(EL) Preset type of electrode
		Welding: This button selects the parameter to be shown on the following display: D1 Possible choices: -(A) Effective welding current -(V) Effective welding voltage
		HOLD function: This button selects the parameter to be shown on the following display: D1 Possible choices: -(A) Average welding current -(V) Average welding voltage
S2		Press the button once to select the parameters of the first level menu. Hold down the button for 3 seconds to gain access to the second level menu.
S3		This button selects the welding mode.

4 UNIT POWER-UP

Set the welding power source ON/OFF switch to “I” to switch on the unit.

FX.X The message appears on the following display: **D1**.

x.x= software version

First power-up or power-ups following a RESET procedure

The welding power source sets up for welding with the factory preset values.

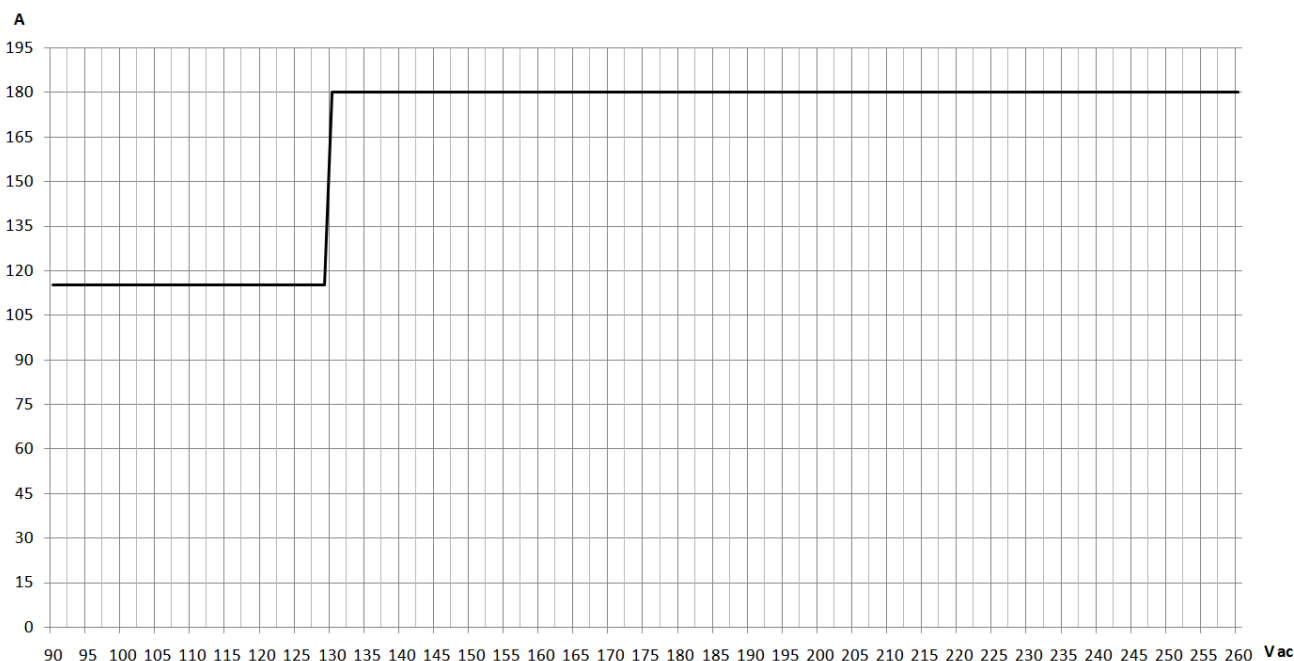
Subsequent power-ups

The welding power source sets up for welding in the latest stable welding configuration that was active at the time of power-off.

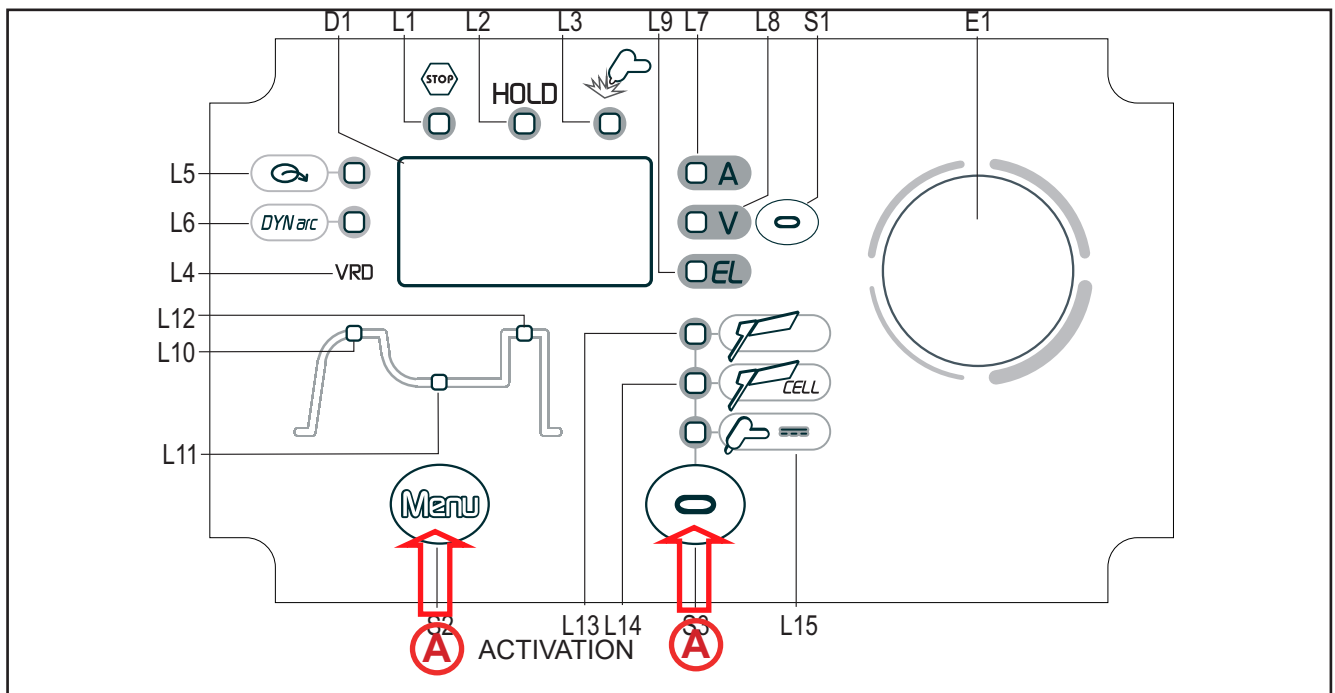
The power source works at a supply voltage ranging between 115V~±15%/50-60Hz and 230V~±15%/50-60Hz.

The maximum value of the adjustable welding current is automatically limited based on the supply voltage measured when the power source is switched on.

SUPPLY VOLTAGE	CURRENT RANGE THAT CAN BE SET (MMA)	CURRENT RANGE THAT CAN BE SET (TIG)
115 V~ ±15 % / 50 - 60 Hz	10 A – 115 A	5 A - 115 A
230 V~ ±15 % / 50 - 60 Hz	10 A – 180 A	5 A - 200 A



5 RESET (LOAD FACTORY SETTINGS)










The reset procedure involves complete restoration of the default values, parameters and memory settings set in the factory.

All memory locations will be reset and hence all your personal welding settings will be lost!

The reset procedure is useful in the following cases:

- Too many changes made to the welding parameters so user finds it difficult to restore defaults.
- Unidentified software problems that prevent the welding power source from functioning correctly.

	<ul style="list-style-type: none"> ○ Set the welding power source ON/OFF switch to “O” to switch the unit off. ○ Keeping both the S2  and S3  buttons pressed, set the generator power source switch to “I” to turn on the equipment [ SIMULTANEOUS ACTIONS] ○ Press both buttons S2  and S3  .  FAC: The message will appear on display D1 <ul style="list-style-type: none"> - Wait for the memory clear procedure to terminate. This action will automatically close the menu.
---	--

6 ALARM MANAGEMENT



This LED illuminates if an incorrect operating condition occurs.

➡ An alarm message will appear on display **D1**.

S1  Press the button to display the additional alarm message.

Tab. 1 - Alarm messages

MESSAGE / ADDITIONAL MESSAGE	MEANING	EVENT	CHECKS
Al. H./ t1 xxx t2 xxx xxx= temperature measured by the probe	Overheating alarm Indicates tripping of the welding power source thermal protection. Leave the unit running so that the overheated components cool as rapidly as possible. When the unit has cooled, the welding power source will reset automatically.	All functions disabled. <u>Exceptions:</u> • Cooling fan.	<ul style="list-style-type: none"> • Make sure that the power required by the welding process is lower than the maximum rated power output. • Check that the operating conditions are in compliance with the welding power source data plate specifications. • Check for the presence of adequate air circulation around the welding power source.
E. 02/ ntC OFF	Alarm, thermal probes faulty	All functions disabled. <u>Exceptions:</u> • Cooling fan	<ul style="list-style-type: none"> • Qualified technical personnel are required for maintenance jobs
Al.P.	Power board alarm It means that the power board is malfunctioning	All functions disabled. <u>Exceptions:</u> • Cooling fan.	<ul style="list-style-type: none"> • Check that the operating conditions are in compliance with the welding power source data plate specifications. • If the problem persists: qualified technical personnel are required for maintenance jobs

7 DERATING

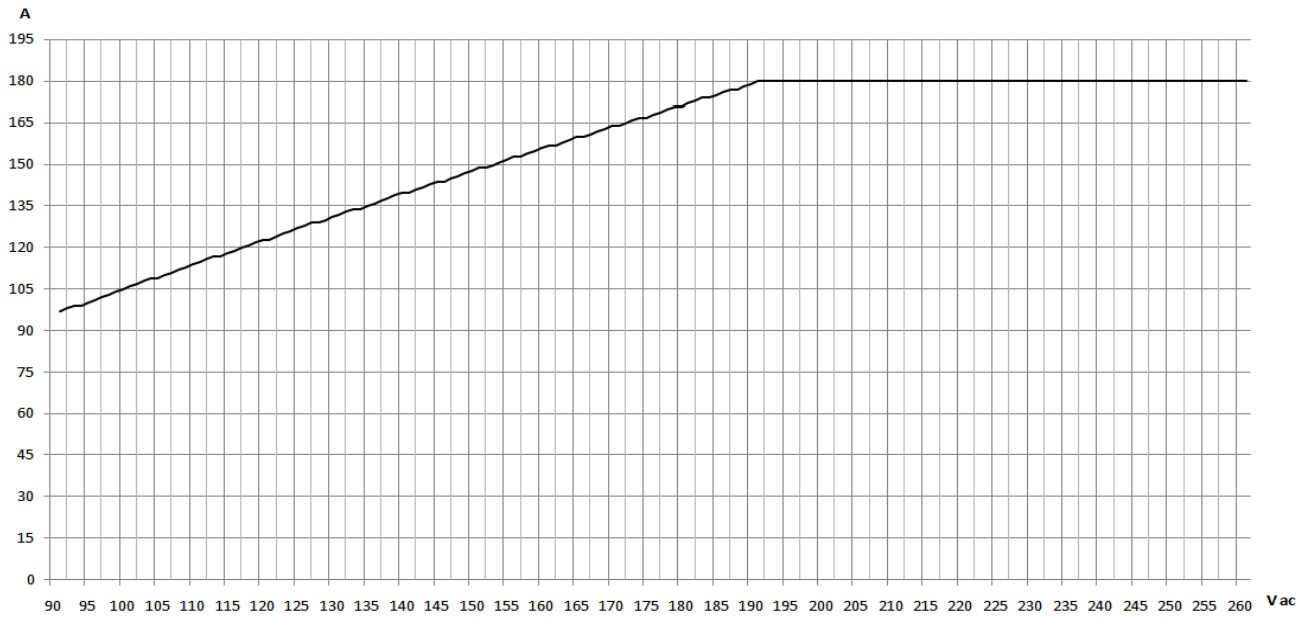
Derating is a machine function that cannot be selected by the user.

Derating limits the maximum welding current if the supply voltage drops below 190Vac.

For example, if the power source is set to weld with a current of 175A, that current will be the power source output until the supply voltage will range between 184Vac and 230Vac.

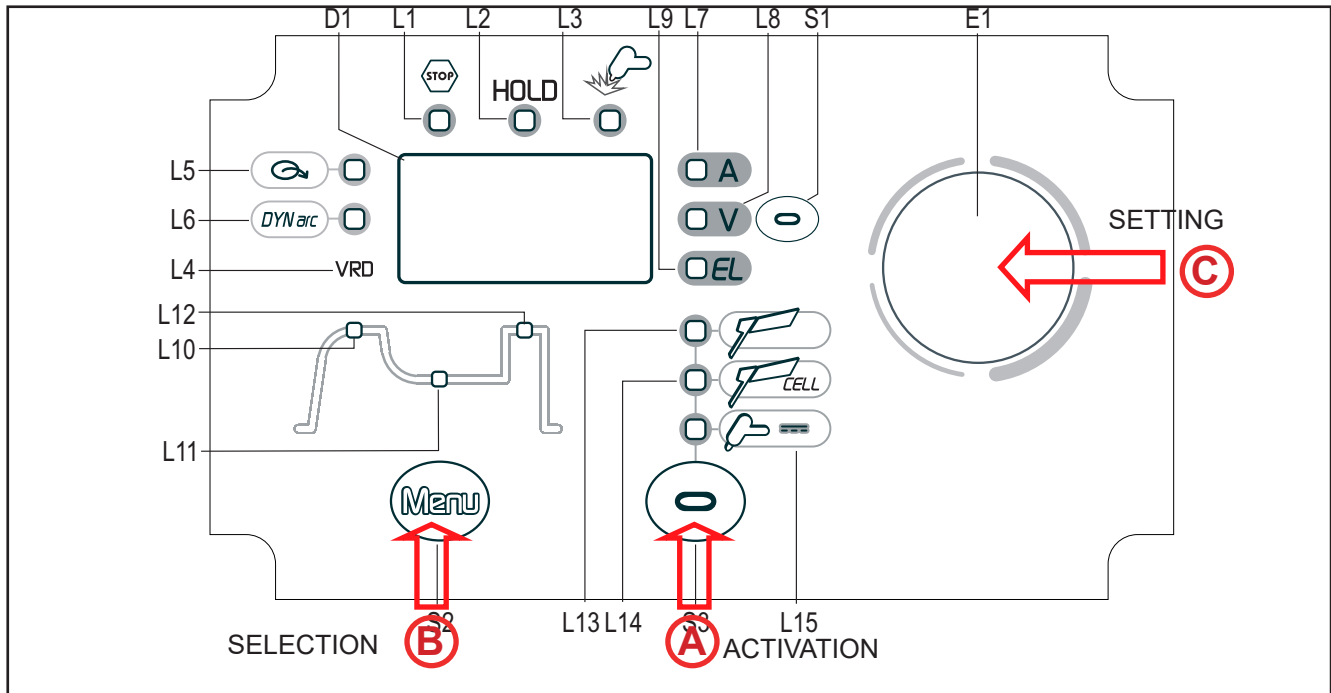
If voltage drops to 165Vac, the power source automatic output current will be 160A.

The following diagram displays the maximum output current, based on the voltage supplied to the power source.



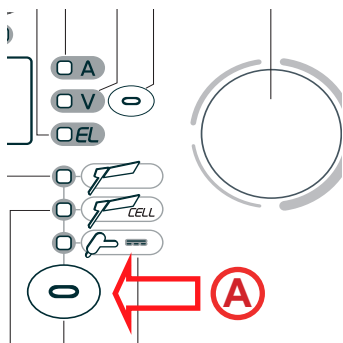
8 ELECTRODE WELDING (MMA) CELLULOSE WELDING (MMA CEL)

8.1 MMA / MMA CEL WELDING - FIRST LEVEL MENU



- o Press the **S3** button to activate the MMA mode.

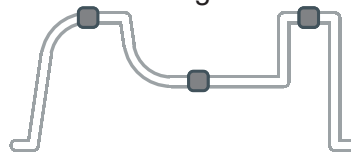
A



L13 MMA
L14 MMA CEL

B

- o Press the **S2** button to scroll the list of settings to edit.
 ● The acronym relative to the selected setting is shown on display **D1**.



The value relative to the selected setting appears on display **D1**.

C

- o Using the **encoder E1** to edit the value of the selected setting.

Tab. 2 - Parameters of 1st level menu: MMA mode

LED	SETTING	MIN	DEFAULT	MAX	NOTES
L10	HOT-START	0 %	SYn	100 %	*1 *2
L11	WELDING CURRENT	10 A	80 A	180 A	*3
		10 A	80 A	115 A	*4
L12	ARC FORCE	0 %	SYn	200 %	*1 *2

***1:** This parameter is set as a percentage referred to the value of the following parameter: WELDING CURRENT

***2: SYN:** This code indicates that parameters control is synergic. The optimal value of this parameter is set automatically by the microprocessor on the basis of the preset welding current value. This value can be displayed but it is not user-adjustable.

When **SYN** is installed, to display the synergic value press the following button: **S1**

***3:** With supply voltage > 130Vac when the power source is switched on.

***4:** With supply voltage < 130Vac when the power source is switched on.

- WELDING CURRENT

- This parameter regulates the primary welding current value.

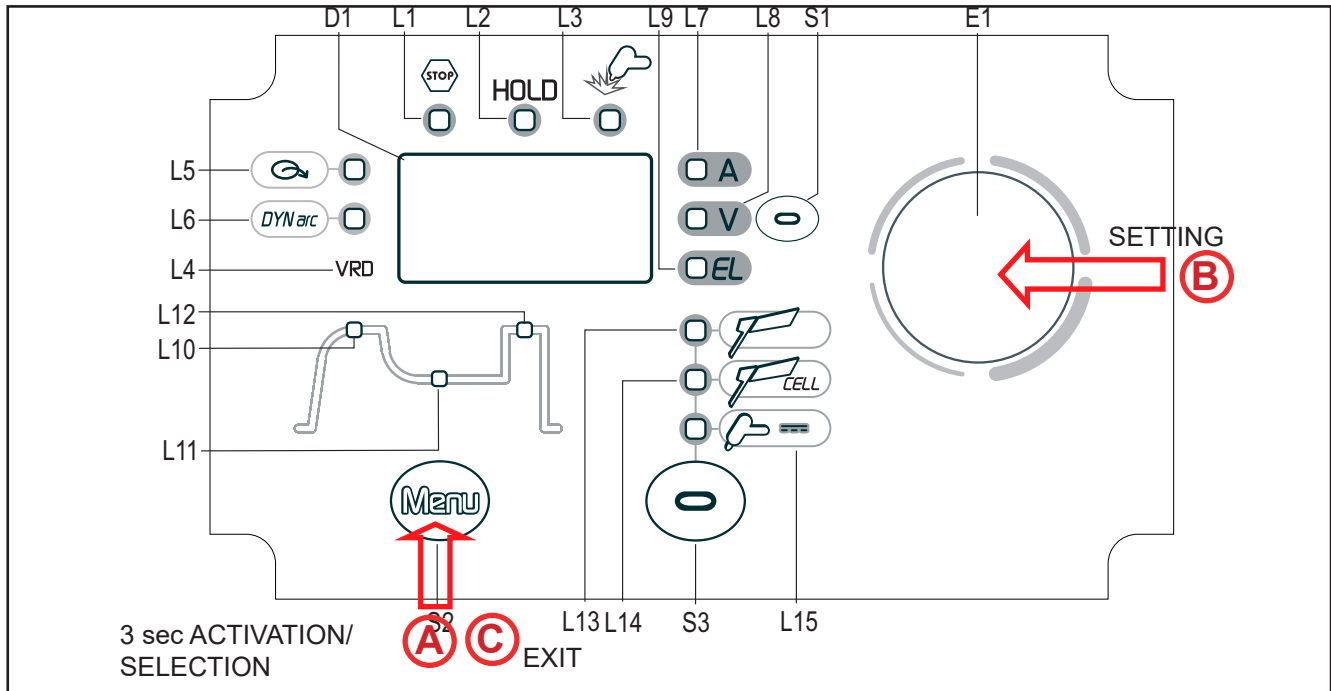
- HOT-START

- This parameter aids electrode melting at the time of arc striking. It is set as a percentage referred to the value of the following parameter: **WELDING CURRENT**.
- Consequences of a higher value:
 - Ease of activation; Greater starting spatter; increase in the activation area.
- Consequences of a lower value:
 - Difficulty of activation; Less starting splatter; Reduction in the activation area.

- ARC-FORCE

- This parameter helps to avoid electrode sticking during welding. It is set as a percentage referred to the value of the following parameter: **WELDING CURRENT**
- Consequences of a higher value:
 - Fluency factors in welding; Arc welding stability; Increased melting of the electrode within the workpiece; More weld spatter.
- Consequences of a lower value:
 - The arc is extinguished more easily, less welding spatter.

8.2 MMA / MMA CEL WELDING - SECOND LEVEL MENU



- A**
 - o Hold down the **S2** (Menu) button for 3 seconds to access the 2nd level menu.
 - o Use the **encoder E1** to scroll the list of settings to be edited.
 - The acronym relative to the selected setting is shown on display **D1**.
 - o Press the **S2** (Menu) button to confirm.
 - The value relative to the selected setting appears on display **D1**.

- B**
 - o Using the **encoder E1**, edit the value of the selected setting.

- C**
 - o **Exit with confirmation**
 - Press the **S2** (Menu) button.
 - o **Exit without confirmation**
 - Press any (except S2) button.
 - This action will automatically close the menu.

Tab. 3 - Parameters of the 2nd level menu: MMA mode

ACRONYM	SETTING	MIN	DEFAULT	MAX	NOTES
EL.	ELECTRODE TYPE	-	bAS	-	bAS= basic rUt= rutile Crn= chromium/ nickel ALU= aluminium
d.Ar.	DYNAMIC ARC	oFF	oFF	on	*2
Urd	VRD	oFF	oFF	On	*2
U.EL.	LONG ARC VOLTAGE MMA	37	SYn	65	*3
rC	REMOTE CONTROLLER ACTIVATION	oFF	oFF	On	*1
GEn	POWER SUPPLY FROM MOTORGENE-RATOR	oFF	oFF	On	

***1:** The activation is suitable for the following welding modes:

- MMA
- MMA CEL
- DC TIG

Compatible remote control types:

- manual remote control.

***2:** The activation is suitable for the following welding modes:

- MMA
- MMA CEL

***3: SYN:** This code indicates that parameters control is synergic. The optimal value of this parameter is set automatically by the microprocessor on the basis of the preset welding current value. This value can be displayed but it is not user-adjustable.

When **SYN** is installed, to display the synergic value press the following button: **S1**

- ELECTRODE TYPE

- This parameter allows for the selection of the type of electrode to be used. The selection automatically allows the optimum welding parameters to be set.

- DYNAMIC ARC

- Welding power remains constant even when the distance between electrode and workpiece changes.
- Consequences of a higher value:
 - The welding arc concentration remains unchanged.
 - Prevents electrode sticking.
 - Thin workpieces may become deformed more easily.

- VRD

- This parameter reduces the potential across the welding sockets when welding is not in progress.
- The arc strike procedure is as follows:
 - Touch the workpiece with the electrode tip.
 - Raise the electrode.
 - Power is released for several seconds.
 - Touch the workpiece with the electrode tip.
 - The welding arc will strike.

- LONG ARC VOLTAGE

- This parameter inhibits power output when the potential between electrode and workpiece exceeds the preset threshold level.
- Consequences of a higher value:
 - The welding arc persists even with a significant distance between the electrode and the workpiece.
- Consequences of a lower value:
 - Faster exit from weld.

- REMOTE CONTROL ACTIVATION

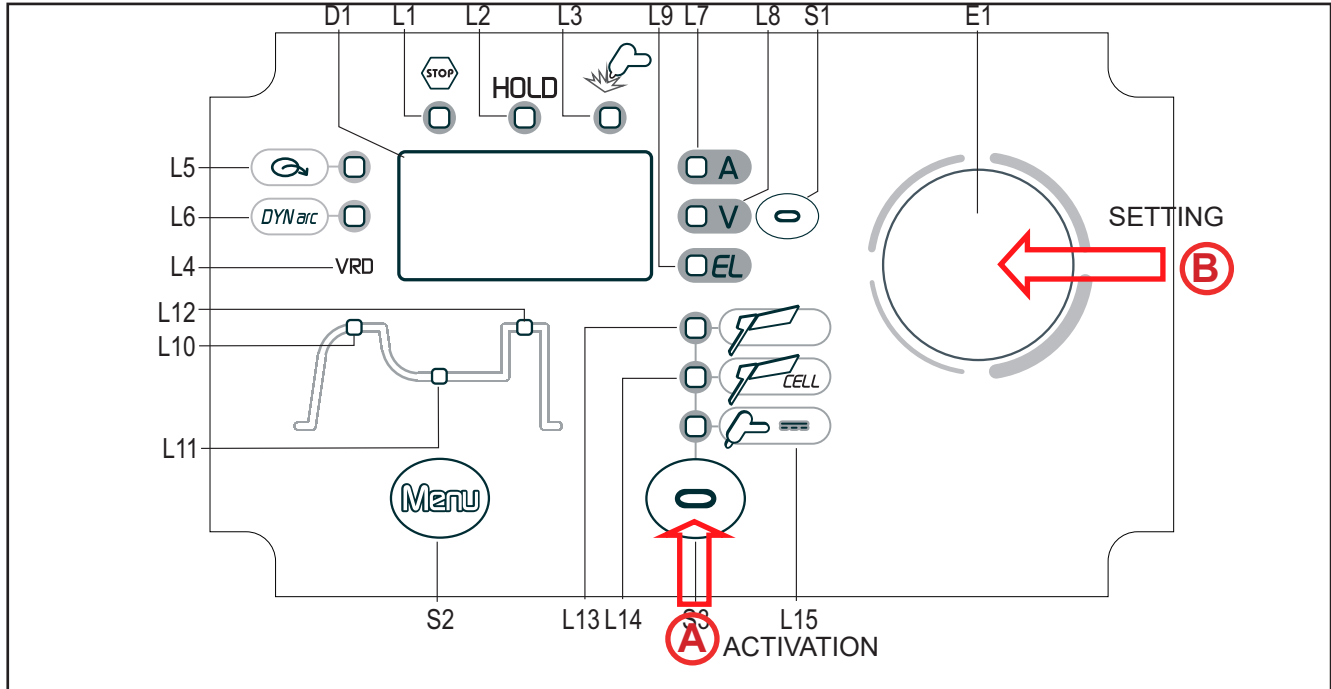
- This parameter enables the unit to receive the current reference signal from a remote control.

- GEN (POWER SUPPLY FROM MOTORGENERATOR)

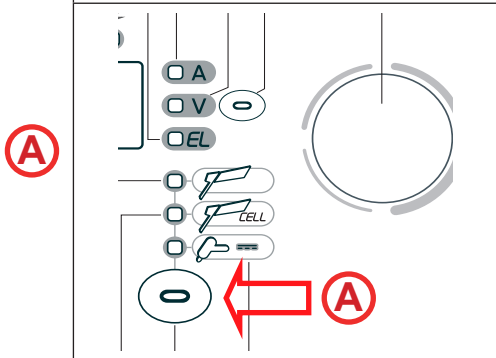
- Set this function to "On" when the machine is powered by the motogenerator.

9 DC TIG WELDING

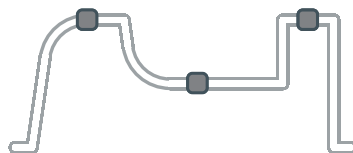
9.1 DC TIG WELDING - FIRST LEVEL MENU



- Press the **S3** button to activate the TIG mode.



L15 CONTINUOUS TIG DC



In this diagram the LED relative to the setting to be edited illuminates.

- Using the **encoder E1**, edit the value of the selected setting.

Tab. 4 - Parameters of 1st level menu: DC TIG mode

LED	SETTING	MIN	DEFAULT	MAX	NOTES
L11	WELDING CURRENT	10 A	80 A	180 A	*1
		10 A	80 A	115 A	*2

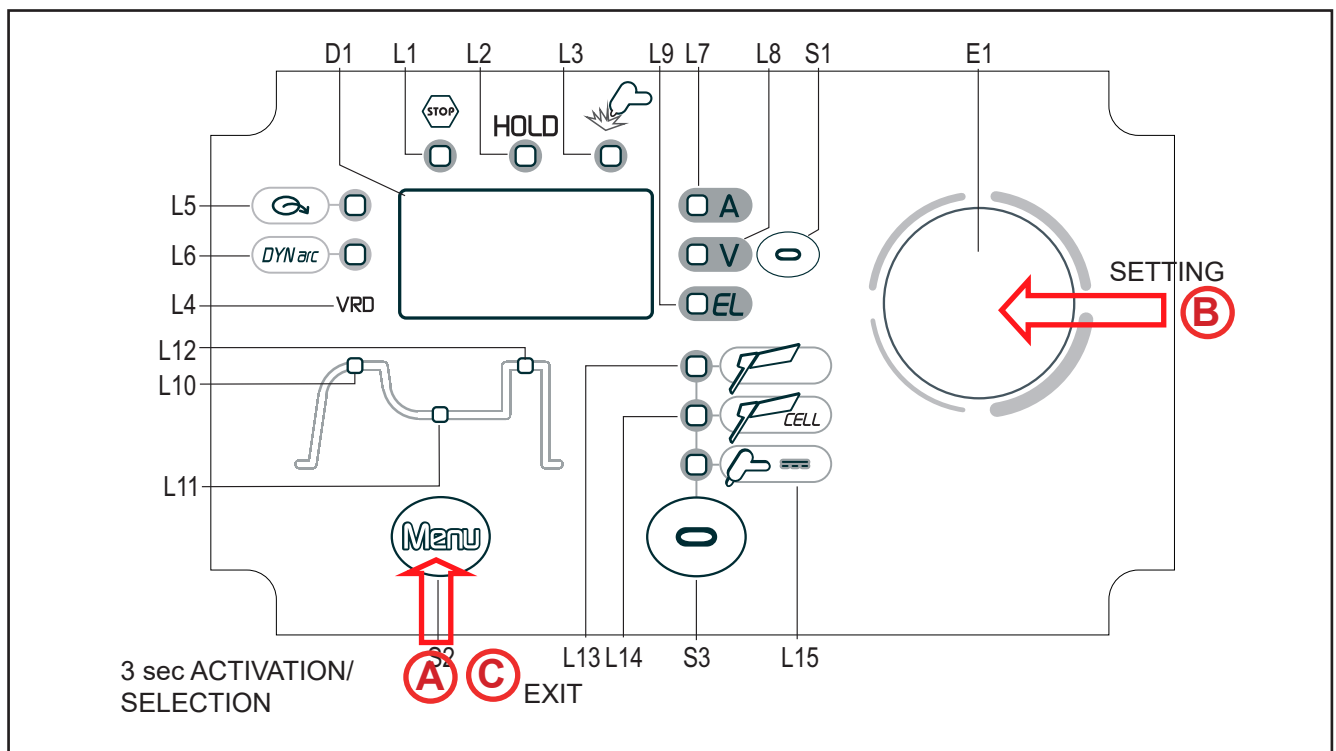
*1: With supply voltage > 130Vac when the power source is switched on.

*2: With supply voltage < 130Vac when the power source is switched on.

- WELDING CURRENT

- This parameter regulates the primary welding current value.

9.2 TIG DC WELDING - SECOND LEVEL MENU



- A**
- Hold down the **S2** (Menu) button for 3 seconds to access the 2nd level menu.
 - ➔ The acronym relative to the selected setting is shown on display **D1**.
 - Press the **S2** (Menu) button to confirm.
 - ➔ The value associated with the selected setting appears on display **D1**.
- B**
- Using the **encoder E1** to edit the value of the selected setting.
- C**
- **Exit with confirmation**
 - Press the **S2** (Menu) button.
 - **Exit without confirmation**
 - Press any () button (except **S2**).
 - This action will automatically close the menu.

ENGLISH

Tab. 5 - Parameters of the 2nd level menu: DC TIG mode

ACRONYM	SETTING	MIN	DEFAULT	MAX	NOTES
rC	REMOTE CONTROL ACTIVATION	oFF	oFF	On	*1

***1:** The activation is suitable for the following welding modes:

- MMA
- MMA CEL
- DC TIG

Compatible remote control types:







- manual remote control.

10 TORCH TRIGGER PROCEDURE

LIFT-ARC Welding

- Open the torch valve to let the gas out.
- Touch the workpiece with the torch electrode.
- Slowly lift the torch to strike the arc.
- The welding current reaches the preset value.
- Quickly move the torch clear of the workpiece to extinguish the welding arc.
- Close the torch valve to interrupt the gas flow.

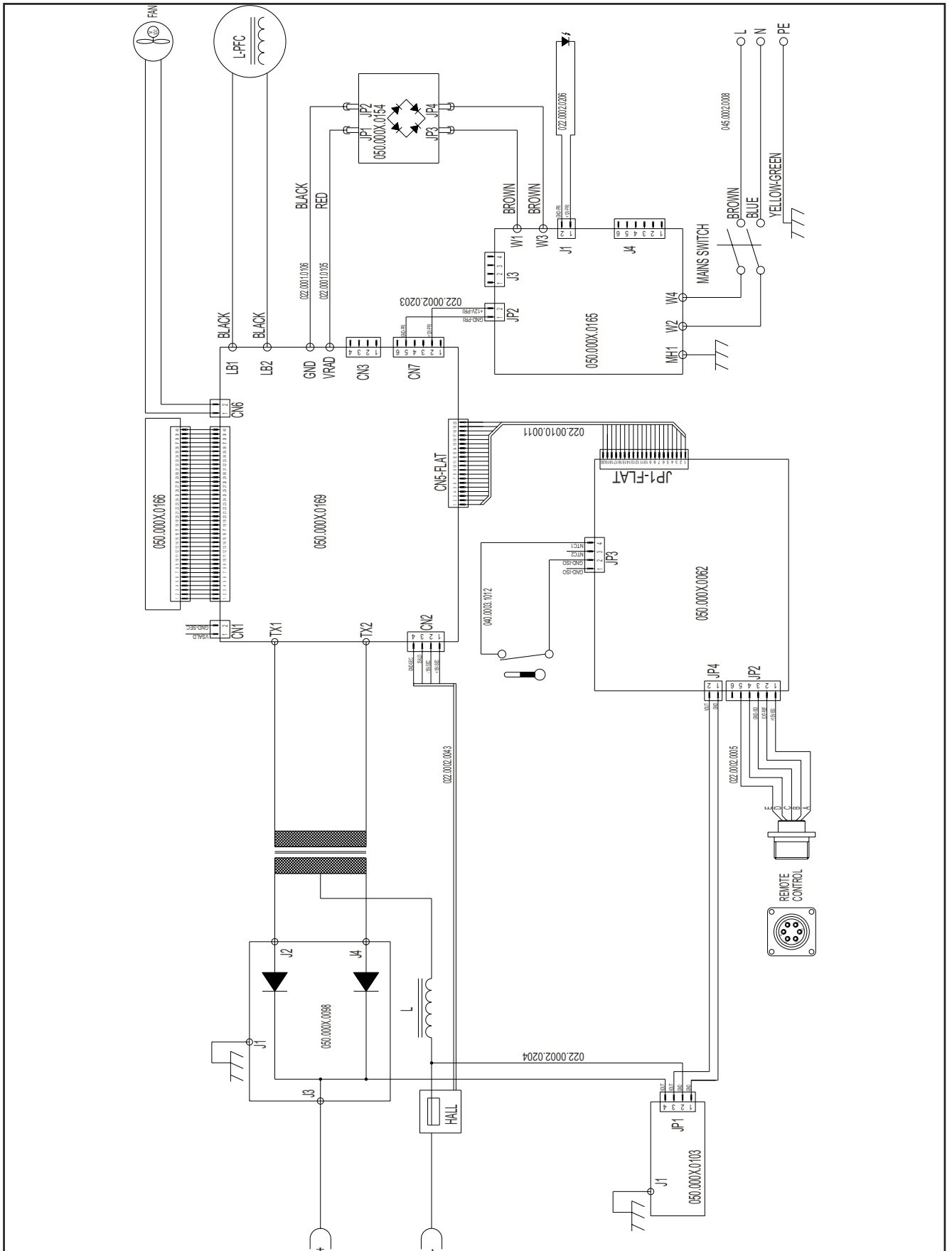
11 TECHNICAL DATA

Directives applied	Waste electrical and electronic equipment (WEEE)		
	Electromagnetic compatibility (EMC)		
	Low voltage (LVD)		
	Restriction of the use of certain hazardous substances (RoHS)		
Construction standards	EN 60974-1; EN 60974-10 Class A		
Conformity markings	 Equipment compliant with European directives in force		
	 suitable in an environment with increased hazard of electric shock		
	 compliant with WEEE directive		
	 Equipment compliant with RoHS directive		
Supply voltage	1 x 230 Va.c. ± 15 % / 50-60 Hz - 1 x 115 Va.c. ± 15 % / 50-60 Hz		
Mains protection	16 A Delayed - 32 A Delayed		
Zmax	Compliant with EN 61000-3-12 Hook-up not dependent on the supply network		
Dimensions (L x D x H)	400 x 160 x 260 mm		
Weight	10.4 kg		
Insulation class	H		
Protection rating	IP23S		
Cooling	AF: Air-over cooling (fan assisted)		
Maximum gas pressure	0,5 MPa (5 bar)		
Static characteristic	MMA	 Falling characteristic	
	TIG	 Falling characteristic	
Welding mode		MMA 230 Va.c. (115 Va.c.)	TIG 230 Va.c. (115 Va.c.)
Current and voltage adjustment range		10 A / 20.4 V - 180 A - 27.2 V (10 A / 20.4 V - 115 A - 24.6 V)	5 A / 10.2 V - 180 A - 17.2 V (10 A / 20.4 V - 115 A - 14.6 V)
Welding current / Working voltage	35% (40° C)	180 A - 27.2 V (---)	180 A - 17.2 V (---)
	50% (40° C)	--- (115 A - 24.6 V)	--- (---)
	60% (40° C)	130 A - 25.2 V (110 A - 24.4 V)	130 A - 15.2 V (---)
	100% (40° C)	120 A - 24.8 V (105 A - 24.2 V)	120 A - 14.8 V (115 A - 14.6 V)
Maximum input power	35% (40° C)	5.8 KVA - 5.6 KW (---)	3.9 KVA - 3.7 KW (---)
	50% (40° C)	--- (3.5 KVA - 3.3 KW)	--- (---)
	60% (40° C)	4.0 KVA - 3.8 KW (3.3 KVA - 3.2 KW)	2.6 KVA - 2.4 KW (---)
	100 % (40° C)	3.6 KVA - 3.4 KW (3.1 KVA - 3.0 KW)	2.3 KVA - 2.1 KW (2.2 KVA - 2.1 KW)

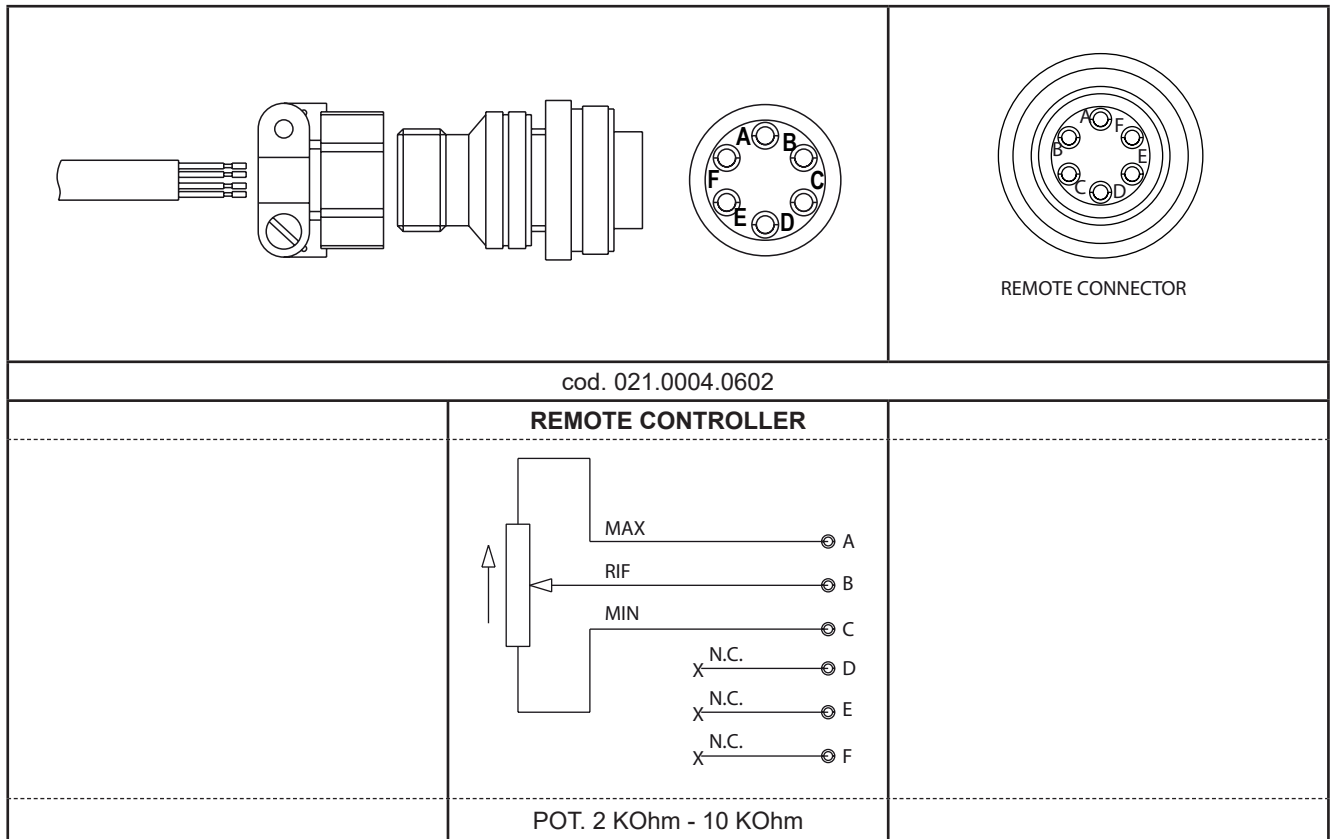
ENGLISH

Maximum input current	35% (40° C)	25.3 A (---)	16.9 A (---)
	50% (40° C)	--- (29.3 A)	--- (---)
	60% (40° C)	17.3 A (28.2 A)	11.1 A (---)
	100 % (40° C)	15.4 A (27.0 A)	9.9 A (18.5 A)
Actual input current	35% (40° C)	15.0 A (---)	10.0 A (---)
	50% (40° C)	--- (20.7 A)	--- (---)
	60% (40° C)	13.4 A (21.8 A)	8.6 A (---)
	100 % (40° C)	15.4 A (27.0 A)	9.9 A (18.5 A)
No-load voltage (U₀)		83 V	83 V
Reduced no-load voltage (U_r)		11 V	11 V
Power source efficiency	Efficiency (180A / 27,2V): 83%		
	No-Load condition power consumption (U ₁ = 230 Va.c.): 15 W		
Essential raw materials	According to the information provided by our suppliers, this product does not contain essential raw materials in quantities greater than 1g per component.		

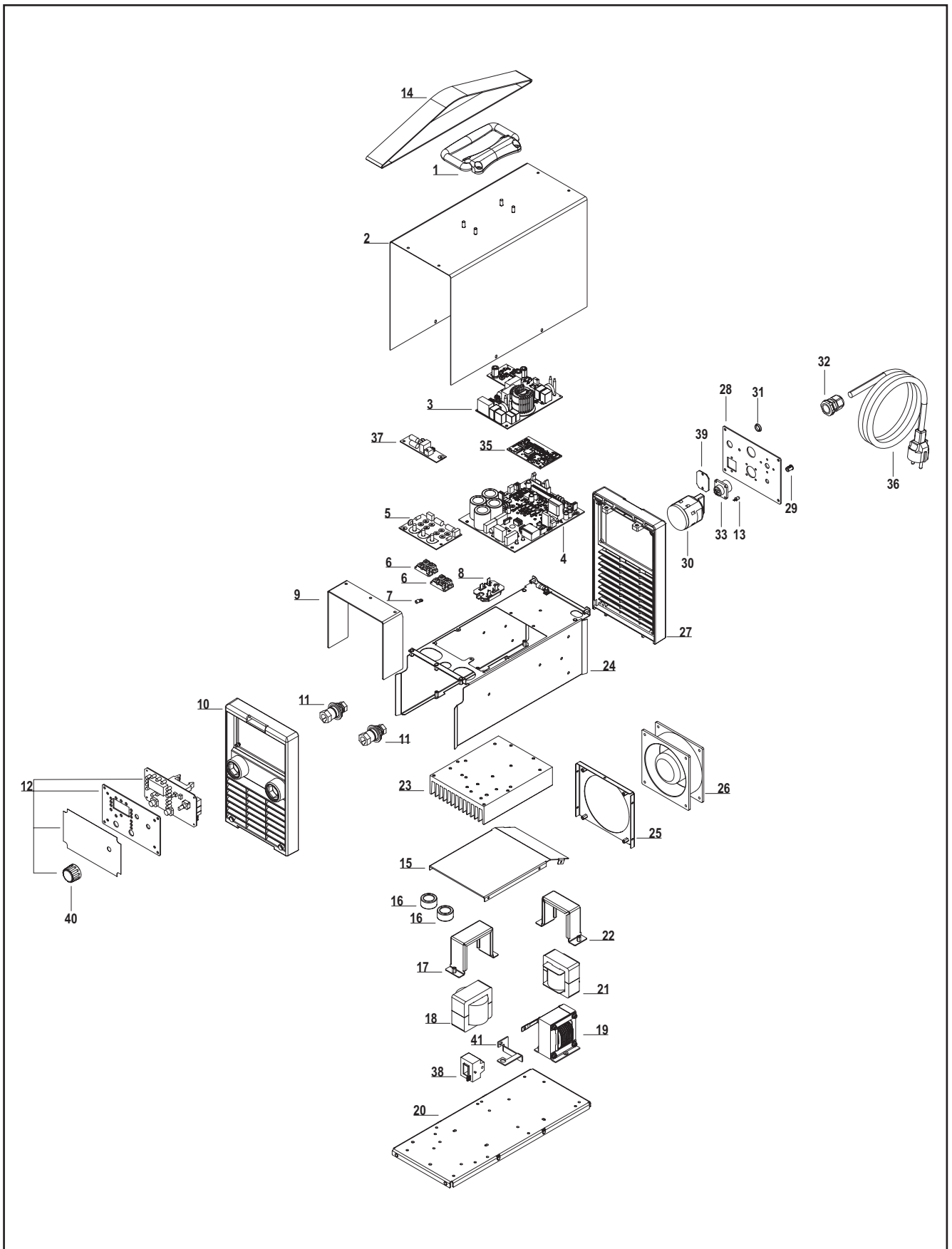
12 WIRING DIAGRAM



12.1 REMOTE CONTROL CONNECTOR (back panel)



13 SPARES



ENGLISH

No.	CODE	DESCRIPTION
1	011.0006.0031	HANDLE
2	011.0000.0121	UPPER COVER
3	050.0002.0165	LINE FILTER BOARD
4	050.0003.0169	COMPLETE POWER BOARD (with board .0166)
5	050.0002.0098	SNUBBER BOARD
6	032.0002.2403	ISOTOP DIODE
7	040.0003.1008	TERMAL SWITCH
8	050.0001.0154	PRIMARY RECTIFIER BOARD
9	046.0004.0009	TUNNEL PLASTIC INSULATION
10	010.0006.0044	COMPLETE FRONT PLASTIC PANEL
11	021.0001.0260	FIXED SOCKET 400A
12	050.5029.0000	COMPLETE LOGIC FRONT PANEL
13	022.0002.0206	LED WIRING
14	005.0001.0004	BELT
15	011.0003.0054	VENTILATION SHROUD
16	043.0002.0621	OUTPUT TOROIDAL FILTER
17	011.0003.0057	BOOST INDUCTANCE SUPPORT
18	044.0004.0017	BOOST INDUCTANCE
19	044.0004.0031	OUTPUT INDUCTANCE
20	011.0003.0051	LOWER COVER
21	042.0003.0043	POWER TRANSFORMER
22	011.0003.0056	TRANSFORMER SUPPORT
23	015.0001.0018	HEAT SINK
24	011.0003.0052	TUNNEL HOUSING
25	011.0003.0053	FAN SUPPORT
26	003.0002.0017	FAN
27	010.0006.0042	COMPLETE REAR PLASTIC PANEL
28	013.0014.0400	REAR PANEL
29	016.4107.0001	LED HOLDER
30	040.0001.0011	TWO-POLE SWITCH
31	016.0011.0002	CAP Ø=13
32	045.0000.0014	CABLE CLAMP
33	022.0002.0005	REMOTE CONTRO WIRING
34	033.0005.0013	IMS MODULE
35	050.0002.0166	INVERTER + CONTROL BOOST BOARD
36	045.0002.0008	NEOPRENE SUPPLY CABLE
37	050.0002.0103	OUTPUT FILTER BOARD
38	041.0004.0302	CURRENT SENSOR
39	011.0016.0125	C.U. CONNECTION COVER PLATE
40	014.0002.0010	KNOB WITH CUP WITHOUT INDICATOR
41	045.0006.0123	CURRENT SENSOR BRACKET





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