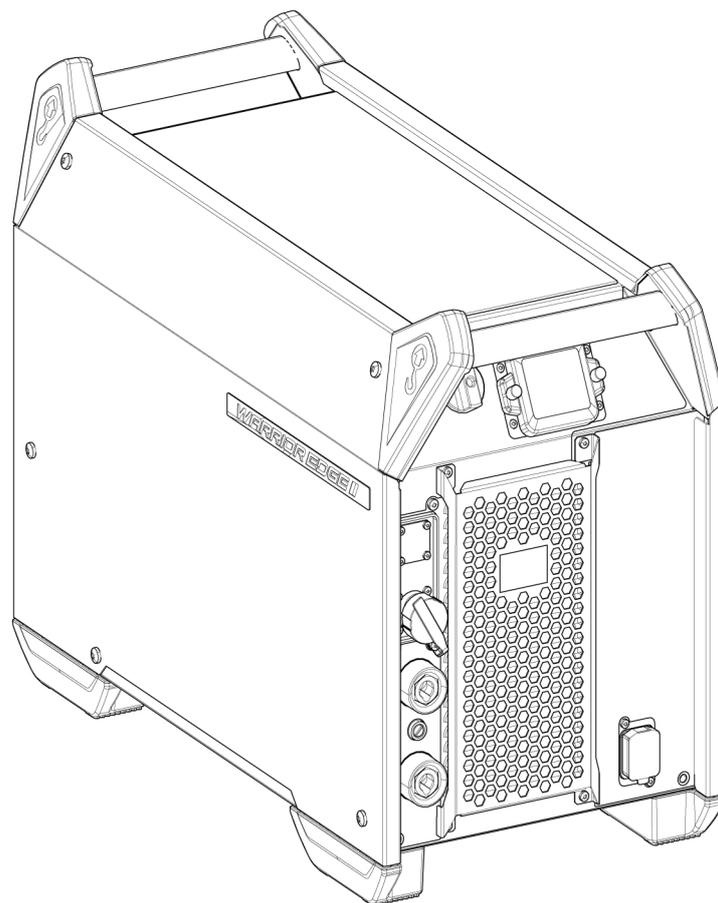


WARRIOR EDGE 500 CX



Instruction manual



EU DECLARATION OF CONFORMITY

According to:

The Low Voltage Directive 2014/35/EU; The EMC Directive 2014/30/EU;
The RoHS Directive 2011/65/EU; The Ecodesign Directive 2009/125/EC

Type of equipment

MIG/MAG welding power source

Type designation

Warrior EDGE 500 from serial number OP332 YY XX XXXX

X and Y represents digits, 0 to 9 in the serial number, where YY indicates year of production.

Brand name or trademark

ESAB

Manufacturer or his authorised representative established within the EEA

ESAB AB
Lindholmsallén 9, Box 8004, SE-402 77 Göteborg, Sweden
Phone: +46 31 50 90 00, www.esab.com

The following EN standards and regulations in force within the EEA has been used in the design:

EN IEC 60974-1:2018/A1:2019	Arc Welding Equipment - Part 1: Welding power sources
EU reg. no. 2019/1784	Ecodesign requirements for welding equipment pursuant to Directive 2009/125/EC
EN 60974-10:2014	Arc Welding Equipment - Part 10: Electromagnetic compatibility (EMC) requirements

Additional Information:

Restrictive use, Class A equipment, intended for use in locations other than residential.

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorised representative established within the EEA, that the equipment in question complies with the safety and environmental requirements stated above.

Place/Date

Signature

Gothenburg
2023-11-21

Peter Burchfield
General Manager, Equipment Solutions

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1 SAFETY

1.1 Meaning of symbols

As used throughout this manual: Means Attention! Be Alert!

**DANGER!**

Means immediate hazards which, if not avoided, will result in immediate, serious personal injury or loss of life.

**WARNING!**

Means potential hazards which could result in personal injury or loss of life.

**CAUTION!**

Means hazards which could result in minor personal injury.

**WARNING!**

Before use, read and understand the instruction manual and follow all labels, employer's safety practices and Safety Data Sheets (SDSs).



1.2 Safety precautions

Users of ESAB equipment have the ultimate responsibility for ensuring that anyone who works on or near the equipment observes all the relevant safety precautions. Safety precautions must meet the requirements that apply to this type of equipment. The following recommendations should be observed in addition to the standard regulations that apply to the workplace.

All work must be carried out by trained personnel well-acquainted with the operation of the equipment. Incorrect operation of the equipment may lead to hazardous situations which can result in injury to the operator and damage to the equipment.

1. Anyone who uses the equipment must be familiar with:
 - its operation
 - location of emergency stops
 - its function
 - relevant safety precautions
 - welding and cutting or other applicable operation of the equipment
2. The operator must ensure that:
 - no unauthorised person is stationed within the working area of the equipment when it is started up
 - no-one is unprotected when the arc is struck or work is started with the equipment
3. The workplace must:
 - be suitable for the purpose
 - be free from drafts

4. Personal safety equipment:

- Always wear recommended personal safety equipment, such as safety glasses, flame-proof clothing, safety gloves
- Do not wear loose-fitting items, such as scarves, bracelets, rings, etc., which could become trapped or cause burns

5. General precautions:

- Make sure the return cable is connected securely
- Work on high voltage equipment **may only be carried out by a qualified electrician**
- Appropriate fire extinguishing equipment must be clearly marked and close at hand
- Lubrication and maintenance must **not** be carried out on the equipment during operation

If equipped with ESAB cooler

Use ESAB approved coolant only. Non-approved coolant might damage the equipment and jeopardize product safety. In case of such damage, all warranty undertakings from ESAB cease to apply.

For ordering information, see the "ACCESSORIES" chapter in the instruction manual.



WARNING!

Arc welding and cutting can be injurious to yourself and others. Take precautions when welding and cutting.



ELECTRIC SHOCK - Can kill

- Install and ground the unit in accordance with instruction manual.
- Do not touch live electrical parts or electrodes with bare skin, wet gloves or wet clothing.
- Insulate yourself from work and ground.
- Ensure your working position is safe



ELECTRIC AND MAGNETIC FIELDS - Can be dangerous to health

- Welders having pacemakers should consult their physician before welding. EMF may interfere with some pacemakers.
- Exposure to EMF may have other health effects which are unknown.
- Welders should use the following procedures to minimize exposure to EMF:
 - Route the electrode and work cables together on the same side of your body. Secure them with tape when possible. Do not place your body between the torch and work cables. Never coil the torch or work cable around your body. Keep welding power source and cables as far away from your body as possible.
 - Connect the work cable to the workpiece as close as possible to the area being welded.



FUMES AND GASES - Can be dangerous to health

- Keep your head out of the fumes.
- Use ventilation, extraction at the arc, or both, to take fumes and gases away from your breathing zone and the general area.



ARC RAYS - Can injure eyes and burn skin

- Protect your eyes and body. Use the correct welding screen and filter lens and wear protective clothing.
- Protect bystanders with suitable screens or curtains.



NOISE - Excessive noise can damage hearing

Protect your ears. Use earmuffs or other hearing protection.

MOVING PARTS - Can cause injuries



- Keep all doors, panels and covers closed and securely in place. Have only qualified people remove covers for maintenance and troubleshooting as necessary. Reinstall panels or covers and close doors when service is finished and before starting engine.



- Stop engine before installing or connecting unit.
- Keep hands, hair, loose clothing and tools away from moving parts.

FIRE HAZARD



- Sparks (spatter) can cause fire. Make sure that there are no inflammable materials nearby.
- Do not use on closed containers.

HOT SURFACE - Parts can burn



- Do not touch parts bare handed.
- Allow cooling period before working on equipment.
- To handle hot parts, use proper tools and/or insulated welding gloves to prevent burns.

MALFUNCTION - Call for expert assistance in the event of malfunction.

PROTECT YOURSELF AND OTHERS!



CAUTION!

This product is solely intended for arc welding.



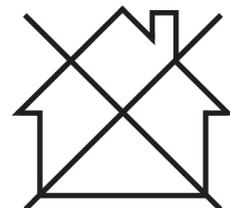
WARNING!

Do not use the power source for thawing frozen pipes.



CAUTION!

Class A equipment is not intended for use in residential locations where the electrical power is provided by the public low-voltage supply system. There may be potential difficulties in ensuring electromagnetic compatibility of class A equipment in those locations, due to conducted as well as radiated disturbances.



NOTE!

Dispose of electronic equipment at the recycling facility!

In observance of European Directive 2012/19/EC on Waste Electrical and Electronic Equipment and its implementation in accordance with national law, electrical and/or electronic equipment that has reached the end of its life must be disposed of at a recycling facility.

As the person responsible for the equipment, it is your responsibility to obtain information on approved collection stations.

For further information contact the nearest ESAB dealer.



ESAB has an assortment of welding accessories and personal protection equipment for purchase. For ordering information contact your local ESAB dealer or visit us on our website.

2 INTRODUCTION

The **Warrior Edge 500 CX** offers a complete multi-process package supporting MIG/MAG, MMA, Live TIG and gouging. It is intended for use in combination with **RobustFeed Edge**.

The power source is equipped with gateway to connect to the **WeldCloud** suite of applications, including **WeldCloud Productivity** for production monitoring and **WeldCloud Fleet** for managing your fleet of welding equipment.

For more information about the wire feed units, refer to the instruction manual 0463 773 001.

ESAB accessories for the product can be found in the "ACCESSORIES" chapter of this manual.

2.1 Equipment

The power source is supplied with:

- 5 m (16 ft) 95 mm² return cable with earth clamp
- 5 m (16 ft) mains cable with 32 A plug
- Instruction manual
- Quick start guide
- Safety instruction

3 TECHNICAL DATA

WARRIOR EDGE 500 CX			
Mains voltage	380–460 V, $\pm 10\%$, 3~ 50/60 Hz		
Mains supply S_{scmin}	6.8 MVA		
Primary current I_{max}	380 V	400 V⁽¹⁾	460 V
MIG/MAG	36 A	36 A	31 A
MMA	38 A	37 A	32 A
TIG	29 A	29 A	25 A
Idle power with fan off	41 W	41 W	43 W
Setting range (DC)			
MIG/MAG	8 A/8.0 V – 500 A/44 V		
MMA	8 A/20.3 V – 500 A/40 V		
TIG	4 A/10.2 V – 500 A/30 V		
Permissible load at MIG/MAG			
60 % duty cycle	500 A/ 39 V		
100% duty cycle	400 A/ 34 V		
Permissible load at MMA			
60 % duty cycle	500 A/40 V		
100% duty cycle	400 A/36 V		
Permissible load at TIG			
60 % duty cycle	500 A/30 V		
100% duty cycle	400 A/26 V		
Power factor			
at maximum current (MMA)	0.91		
MIG/MAG welding	0.93		
Efficiency			
at maximum current (MMA)	89%		
MIG/MAG welding	88%		
Open-circuit voltage	55 V		
Operating temperature	-20 to + 55 °C		
Transportation temperature	-40 to + 80 °C		
Constant sound pressure when idling fan on	<70 db (A)		
Dimensions l × w × h	712 × 325 × 470 mm		
Weight	63 kg		
Insulation class	H		

WARRIOR EDGE 500 CX	
Enclosure class	IP 23
Application class	S

⁽¹⁾Indicates default primary current

Mains supply, $S_{sc\ min}$

Minimum short circuit power on the network in accordance with IEC 61000-3-12.

Duty cycle

The duty cycle refers to the time as a percentage of a ten-minute period that you can weld or cut at a certain load without overloading.

Enclosure class

The **IP** code indicates the enclosure class, i.e. the degree of protection against penetration by solid objects or water.

Equipment marked **IP23** is intended for indoor and outdoor use.

Application class

The symbol **S** indicates that the power source is designed for use in areas with increased electrical hazard.

4 INSTALLATION

The installation must be carried out by a professional.



CAUTION!

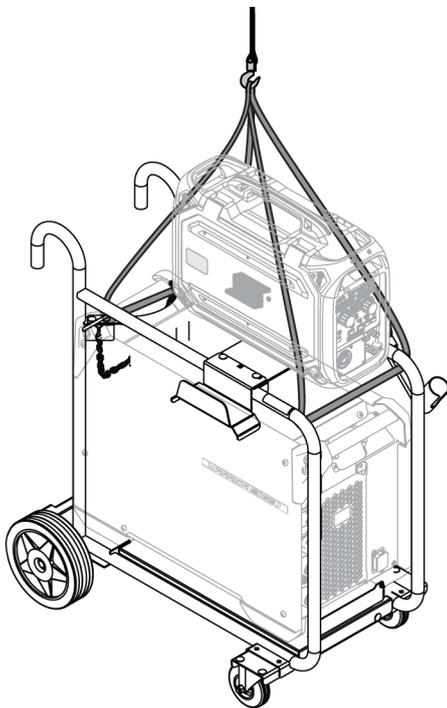
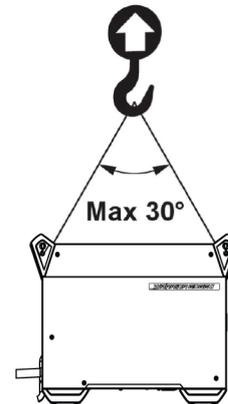
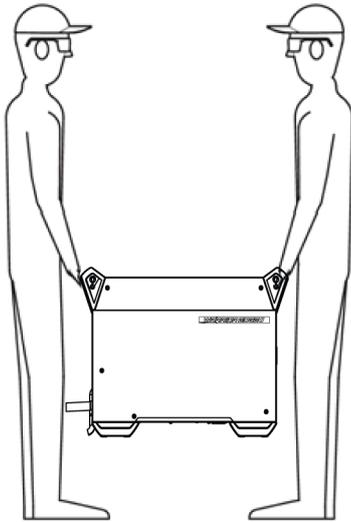
This product is intended for industrial use. In a domestic environment this product may cause radio interference. It is the user's responsibility to take adequate precautions.

4.1 Location

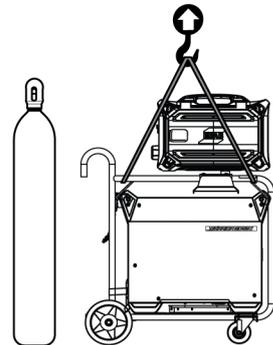
Position the power source so that cooling air inlets and outlets are not obstructed.

4.2 Lifting instructions

Mechanical lifting must be done with both outer handles.



Max 230 kg/507 lbs



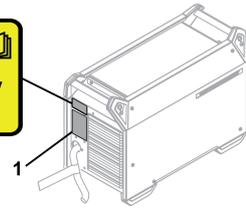
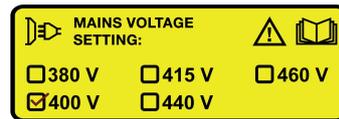
4.3 Mains supply



NOTE! Mains supply requirements

This equipment complies with IEC 61000-3-12 provided that the short-circuit power is greater than or equal to S_{scmin} at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power greater than or equal to S_{scmin} . Refer to the technical data in the TECHNICAL DATA chapter.

1. Rating plate with supply connection data



4.4 Recommended fuse sizes and minimum cable area

WARRIOR EDGE 500 CX			
Mains voltage	380 V 3~ 50/60 Hz	400 V 3~ 50/60 Hz	460 V 3~ 50/60 Hz
Mains cable area	4×6 mm ²	4×6 mm ²	4×6 mm ²
Maximal current I_{max}	38 A	37 A	32 A
I_{1eff}			
MIG/MAG	29 A	28 A	24 A
MMA	30 A	29 A	25 A
TIG	24 A	22 A	19 A
Fuse			
Anti-surge	35 A	35 A	35 A
Type C MCB	32 A	32 A	32 A



NOTE!

The mains cable areas and fuse sizes as shown above are in accordance with Swedish regulations. For other regions, supply cables must be suitable for the application and meet local and national regulations.

4.5 Supply from power generators

The power source can be supplied from different types of generators. However, some generators may not provide sufficient power for the welding power source to operate correctly. Generators with Automatic Voltage Regulation (AVR) or with equivalent or better type of regulation, with rated power ≥ 40 kW, are recommended.

4.6 Connecting the power source



WARNING!

The mains supply must be disconnected during installation.



WARNING!

Wait until the DC bus capacitors are discharged. The DC bus capacitor discharge time is at least two minutes!

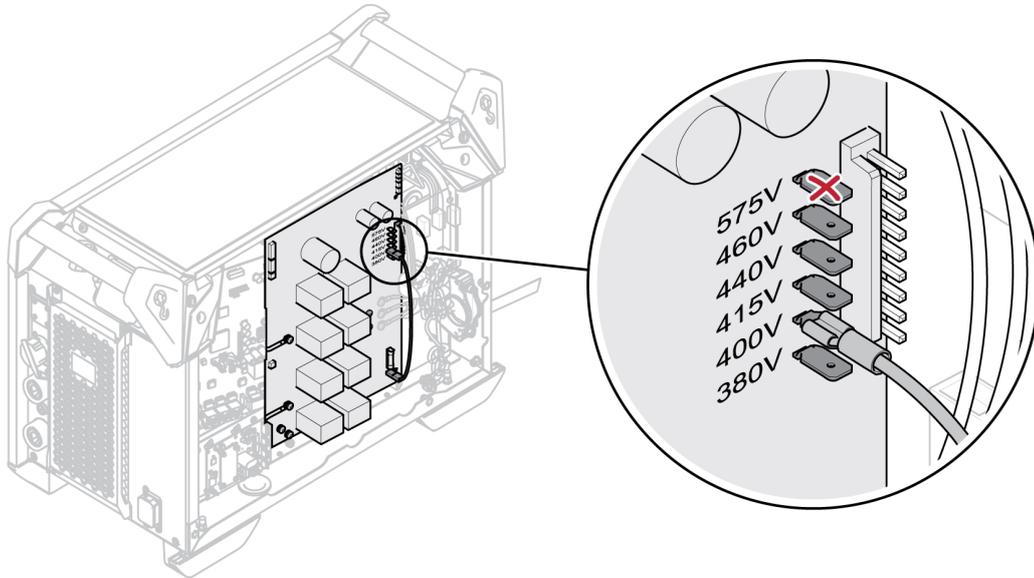


WARNING!

This operation must be done by a person who has the appropriate electrical knowledge.

- 1) Put the cable on the printed circuit board in the correct position, according to mains voltage setting.

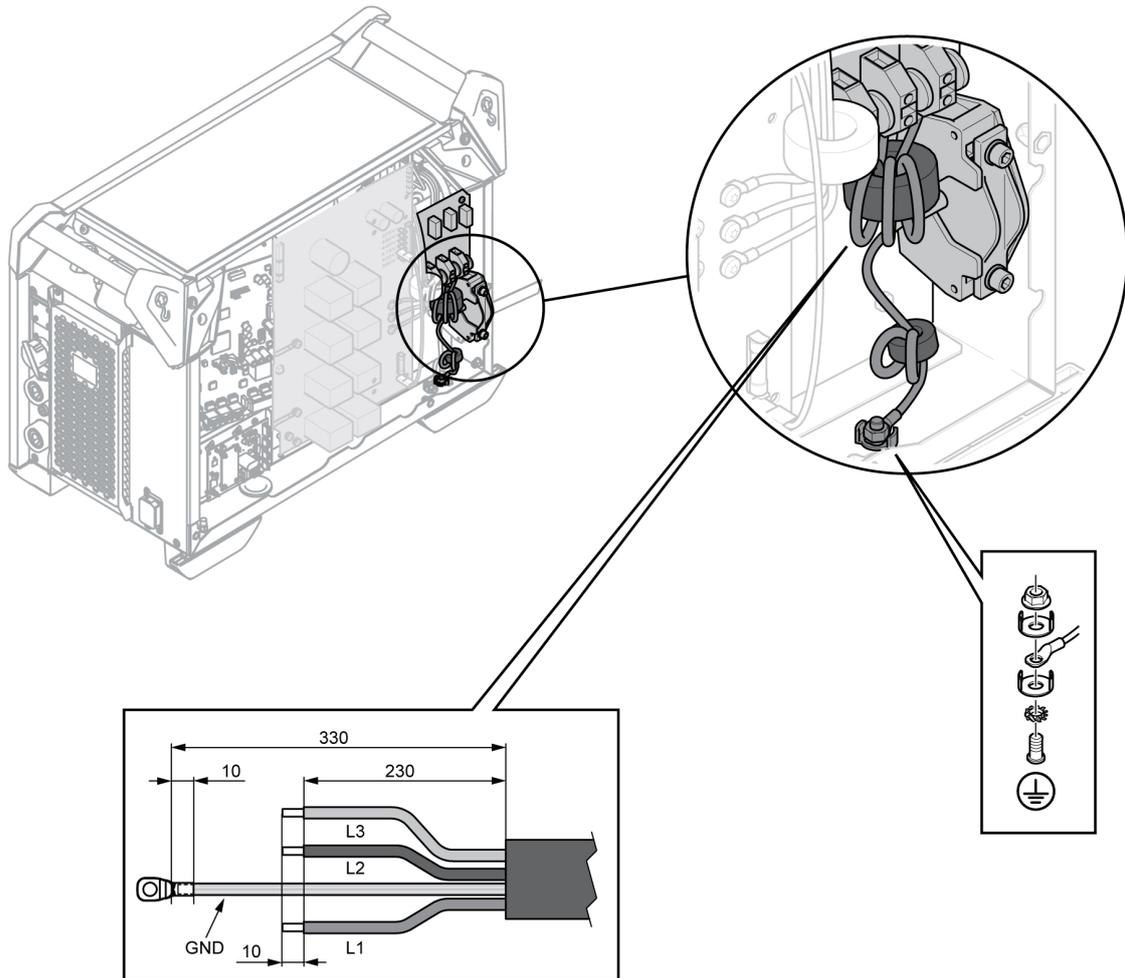
The power source is factory set to 400 V AC. If another mains voltage setting is required, the cable on the printed circuit board has to be moved and the label at the rear of the power source, marked with the mains voltage setting, must be updated.

**NOTE!**

This power source version is designed for a nominal input voltage from 380 to 460 V AC. This means that the hardware to support 575 V input is not available, 575 V tab is not connected.

- 2) If the mains cable needs to be changed, the earth connection to the bottom plate and the ferrites must be installed correctly.

See the following image for the installation order of the ferrites, washers, nuts, and screws.



Connections	Cable colour
L1	Brown
L2	Black
L3	Grey
GND	Yellow/Green

5 OPERATION

General safety regulations for handling the equipment can be found in the "SAFETY" chapter of this manual. Read it through before you start using the equipment!



WARNING!

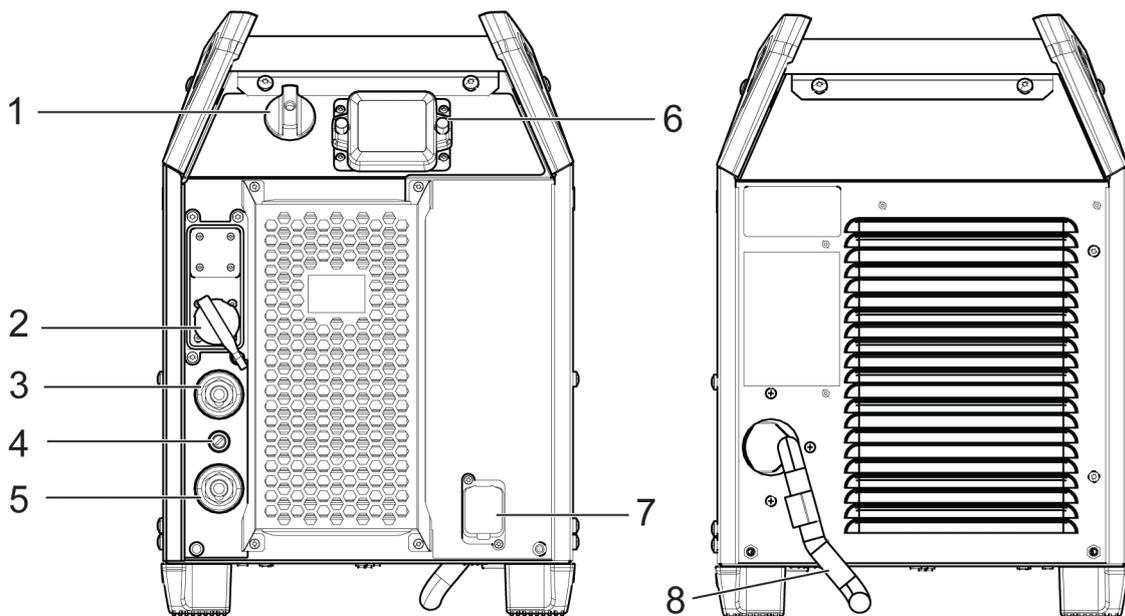
Electric shock! Do not touch the workpiece or the welding head during operation!



NOTE!

When moving the equipment use intended handle. Never pull the cables.

5.1 Connections and control devices



- | | |
|---|---|
| 1. Mains power supply switch, O/I | 5. Positive welding terminal: Welding cable |
| 2. Power connection to wire feed unit | 6. USB connection ports |
| 3. Negative welding terminal: Return cable | 7. WeldCloud Ethernet connection |
| 4. Fuse (10A) for supply voltage for wire feeder unit | 8. Mains cable |

5.2 Symbols

	WeldCloud connection		USB connection
	Protective earth		Position for mechanized lifting

5.3 Connection of welding and return cable

The power source has two outputs, a positive terminal (+) and a negative terminal (-), for connecting welding and return cables.

Connect the return cable to the negative terminal on the power source. Secure the return cable's contact clamp to the work piece and ensure that there is good contact between the work piece and the output for the return cable on the power source.

Recommended maximum current values for connection set cables

At an ambient temperature of +25 °C and normal 10 minutes cycle:

Cable area	Duty cycle		Voltage loss / 10 m
	100%	60%	
50 mm ²	290	320	0.35 V / 100 A
70 mm ²	360	400	0.25 V / 100 A
95 mm ²	430	500	0.19 V / 100 A

Use the correlation factors in the table below if the ambient temperature differs from the above:

Correction factor if ambient is other than +25 °C			
Ambient temperature °C	30	35	45
Correction factor	0.96	0.91	0.82

At an ambient temperature of +40 °C and normal 10 minutes cycle:

Cable area	Duty cycle		Voltage loss / 10 m
	100%	60%	
50 mm ²	250	280	0.37 V / 100 A
70 mm ²	310	350	0.27 V / 100 A
95 mm ²	370	430	0.20 V / 100 A

Duty cycle

The duty cycle refers to the time as a percentage of a ten-minute period that you can weld at a certain load without overloading.

5.4 Turning the mains power on/off

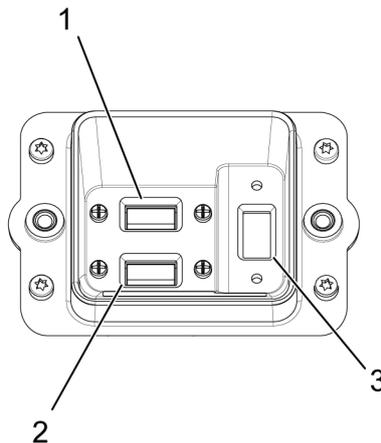
- 1) To turn on the mains power, turn the switch to the "I" position.
- 2) To turn off the mains power, turn the switch to the "O" position.

Regardless if the mains supply is interrupted abnormally, or the power source is switched off in the normal manner, the welding data will be stored, so it will be available next time when the unit is turned on. To achieve a proper restart, wait at least 30 seconds after turning off the main power supply switch.

5.5 Fan control

The power source has a time control that means that the fans continue to run for four minutes after welding has stopped. The fans start again when welding restarts.

5.6 USB connection



1. IoT gateway USB port 1
2. IoT gateway USB port 2
3. USB port 3, enables the user to update software and to export the error log report

5.7 LED indicators description

Indicator	Description
	<p>WeldCloud</p> <p>An online management system that connects welding power supplies to a software platform that manages data to be analysed for maximum productivity.</p> <p>WeldCloud productivity provides the production manager tools to improve welding productivity and increase traceability by keeping track of each weld, operator, part number and more.</p> <p>The indicator is lit in green when it is connected. If it is configured and not connected, then red signal will indicate. during data transfer will blink in green.</p>
VRD	<p>VRD (Voltage Reducing Device)</p> <p>The VRD function ensures that the open-circuit voltage does not exceed 35 V when welding is not being carried out. The VRD function must be activated by a qualified service technician, by means of Edge ESAT (ESAB Software Administration Tool, a kit for technical service including a software to manage settings, update of software etc.).</p> <p>The VRD function is blocked when the system senses that welding has started.</p> <p>When VRD function is active, the indicator is lit in green.</p>
	<p>TRUEARC compensate</p> <p>To achieve a good welding result, the arc voltage is a crucial factor. In MIG/MAG welding, the power source is prepared to sense the arc voltage in the wire feeder. Prerequisite for this functionality is that an ESAB wire feeder and an ESAB interconnection cable is used.</p> <p>In compensation mode, when the torch is triggered on the workpiece (avoid wire contact), it measures the inductance and resistance to compensate for the voltage drop in the interconnection cable, torch and return cable.</p> <p>The indicator is lit in yellow when compensation is required and it blinks during the compensation process. If the compensation process is a success, the indicator is lit in green.</p>

Indicator	Description
	<p>Warning/Error</p> <ul style="list-style-type: none">Warning <p>The indicator is lit in yellow and displays an "Err" message. If warning occurs, completion of ongoing weld is possible, but start of a new weld is prevented as long as the warning remains.</p> Error <p>The indicator is lit in red and displays an "Err" message. The ongoing welding is stopped as long as the error remains.</p>
	<p>Lock</p> <p>Green - This indicates when the system has limited access or Job limits are active.</p> <p>Red - This indicates the system is locked, and to be able to use the system, it is required to unlock.</p> <p>Red (blink) - This indicates when the user is trying to access the restricted features.</p>

6 MAINTENANCE

**WARNING!**

The mains supply must be disconnected during cleaning and maintenance.

**CAUTION!**

Only persons with the appropriate electrical knowledge (authorised personnel) may remove the safety plates.

**CAUTION!**

The product is covered by manufacturer's warranty. Any attempt to carry out repair work by non-authorised service centers or personnel will invalidate the warranty.

**NOTE!**

Regular maintenance is important for safe and reliable operation.

**NOTE!**

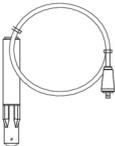
Perform maintenance more often during severe dusty conditions.

Before each use - make sure that:

- Product and cables are not damaged
- The torch is clean and not damaged

6.1 Routine maintenance

Maintenance schedule during normal conditions. Check equipment prior to every use.

Interval	Area to maintain		
Every 3 months	 Clean or replace unreadable labels.	 Clean weld terminals.	 Check or replace weld cables.
Every 12 months or depending on environmental conditions (by authorised service technician)	 Clean inside equipment. Use dry compressed air with 4 bar pressure.		

6.2 Cleaning the power source

To maintain the performance and increase the lifetime of the power source it is mandatory to clean it regularly. How often depends on:

- the welding process
- the arc time
- the working environment
- the surrounding environment (grinding etc.)

Tools needed for the cleaning procedure:

- torx screwdriver, T25 and T30
- dry compressed air at a pressure of 4 bar
- protective equipment like ear plugs, safety glasses, masks, gloves, and safety shoes



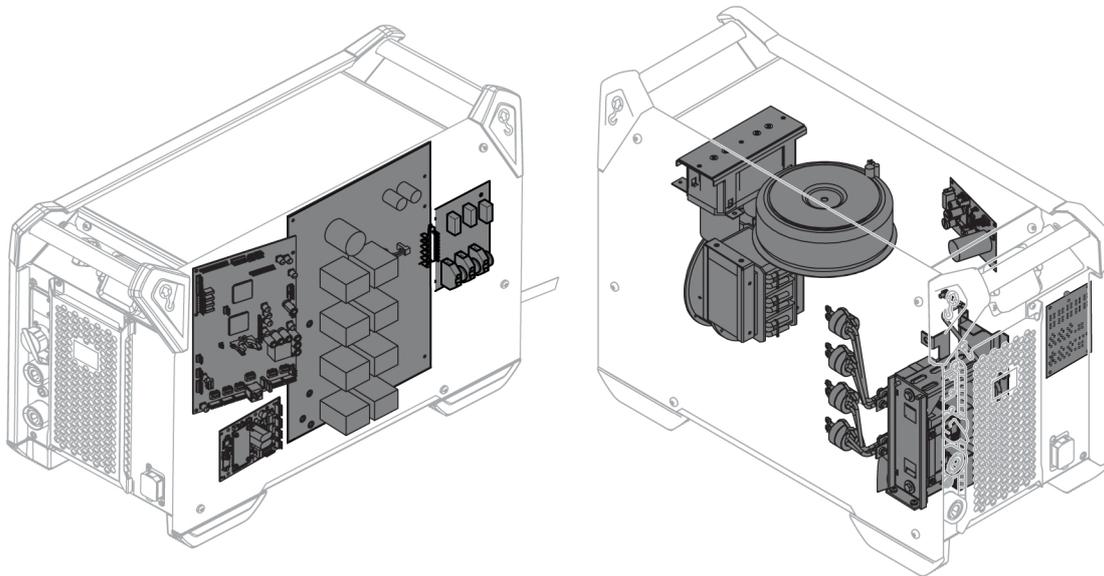
CAUTION!

Make sure that the cleaning procedure is done in a suitable prepared workspace.



CAUTION!

The cleaning procedure should be carried out by authorised service technician.



- 1) 1. Disconnect the power source from the mains supply.



WARNING!

Wait until the DC bus capacitors are discharged. The DC bus capacitor discharge time is at least two minutes!

- 2) Remove the side panels on the power source.
- 3) Remove the top panel on the power source.
- 4) Remove the plastic cover between the heat sink and fan.

- 5) Clean the power source with dry compressed air (4 bar) as follows:
 - The upper rear part
 - From the rear panel through the secondary heat sink
 - The inductor, transformer, and current sensor
 - The power components side, from the rear side behind PCB 15AP1
 - The PCBs at both sides
 - Radiator and fans
- 6) Make sure that there is no dust left on any part of the power source.
- 7) Install the plastic cover between the heat sink and the fan and make sure it is correctly fitted against the heat sink.
- 8) Reassemble the power source after cleaning and perform testing according to IEC 60974-4.
Follow the procedure in section “After repair, inspection and test” in the service manual.

7 TROUBLESHOOTING

Perform these checks and inspections before sending for an authorised service technician.

Check that the mains voltage is disconnected before starting any type of repair action.

Type of fault	Corrective action
No arc	Check that the mains power supply switch is turned on.
	Check that the mains, welding and return cables are correctly connected.
	Check that the correct current value is set.
	Check the mains power supply fuses.
The welding current is interrupted during welding	Check whether the thermal protection trip has operated (indicated by LED on Overtemperature indicator in control panel).
	Check the mains supply fuses.
The thermal protection trips frequently	Make sure that you are not exceeding the rated data for the power source (i.e. that the unit is not being overloaded).
	Check that the ambient temperature is not above the one for the rated duty cycle 40 °C/104 °F.
Poor welding performance	Check that the welding current supply and return cables are correctly connected.
	Check that the correct current value is set.
	Check that the correct welding wires are being used.
	Check the main power supply fuses.
	Perform TrueArc compensate.
Intermittent gouging stops or contact between carbon and metal lost	Air pressure is too high. Reduce the air pressure.
	Check the air pressure whether it is set to the recommended value. Check the manual of the torch used.
Carbon deposit on the gouge metal	Air pressure is too low. Turn on air before striking the arc and air should flow between the electrode and the workpiece.
	Check the air pressure whether it is set to the recommended value. Check the manual of the torch used.
No arc during start or erratic arc during gouging	Check whether the voltage is set to the recommended value.
Intermittent arc action resulting in an irregular groove surface or copper deposition on the metal plate	Check whether the voltage is set to the recommended value.

8 ORDERING SPARE PARTS



CAUTION!

Repair and electrical work should be performed by an authorised ESAB service technician.
Use only ESAB original spare and wear parts.

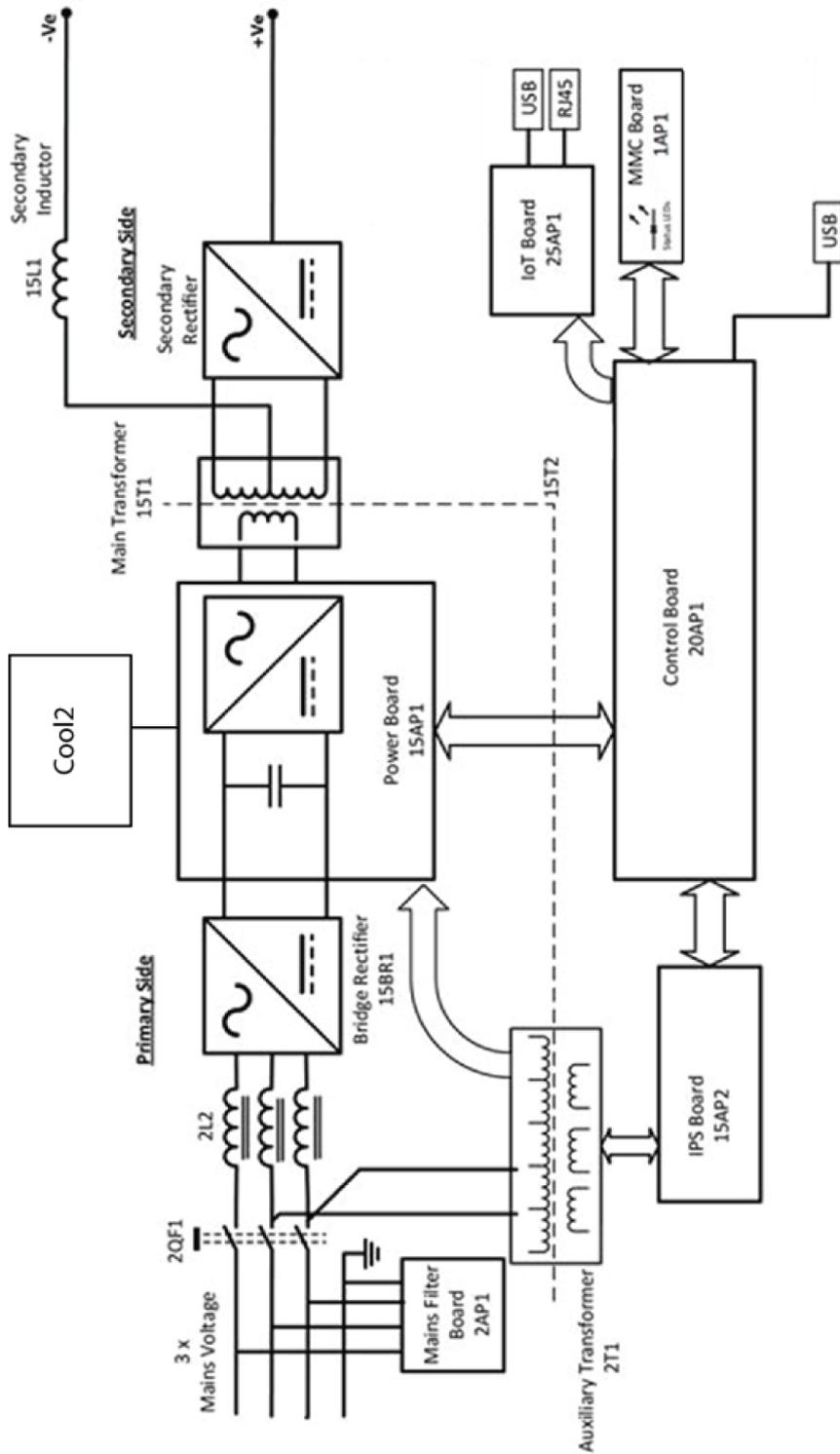
Warrior Edge 500 is designed and tested in accordance with the international and European standards **EN IEC 60974-1** and **EN IEC 60974-10 Class A**.

On completion of service or repair work, it is the responsibility of the person(s) performing the work to ensure that the product still complies with the requirements of the above standards.

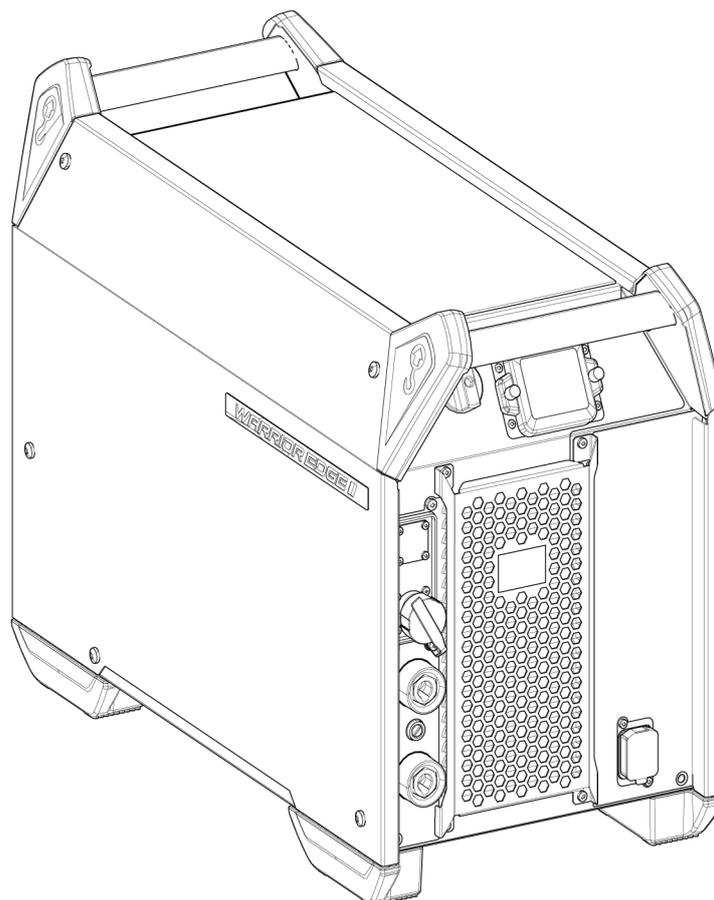
Spare parts and wear parts can be ordered through your nearest ESAB dealer, see [esab.com](https://www.esab.com). When ordering, please state product type, serial number, designation and spare part number in accordance with the spare parts list. This facilitates dispatch and ensures correct delivery.

APPENDIX

WIRING DIAGRAM



ORDERING NUMBERS

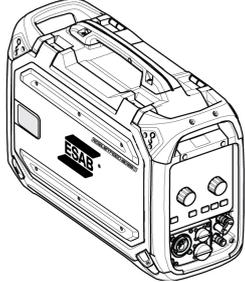
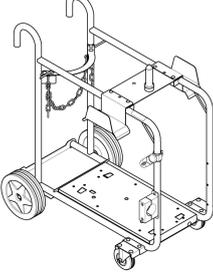
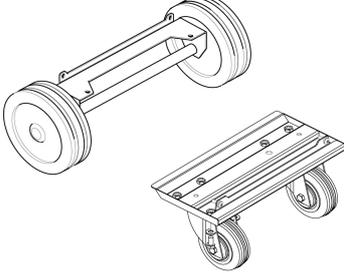
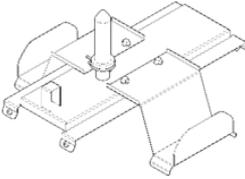
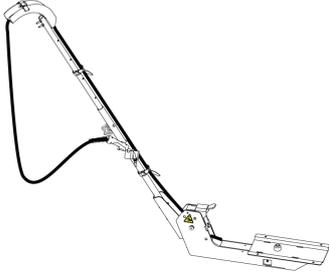


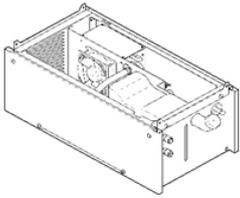
Ordering number	Denomination	Type	Notes
0448 500 880	Power source	Warrior Edge 500 CXI	Includes Pulse. 380-460 V, optional cooler, CE
0448 500 881	Power source	Warrior Edge 500 CXII	Includes Pulse, SPEED. 380- 460 V, optional cooler, CE
0448 500 886	Power source	Warrior Edge 500 CXII	Includes Pulse, SPEED. 380- 460 V, optional cooler, AUS
0448 500 887	Power source	Warrior Edge 500 CXII	Includes Pulse, SPEED. 380- 460 V, optional cooler, CCC
0448 517 *	Instruction manual		
0463 844 001	Service manual		
0448 521 001	Spare parts list		

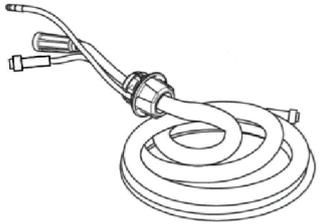
The three last digits in the document number of the manual show the version of the manual. Therefore they are replaced with * here. Make sure to use a manual with a serial number or software version that corresponds with the product, see the front page of the manual.

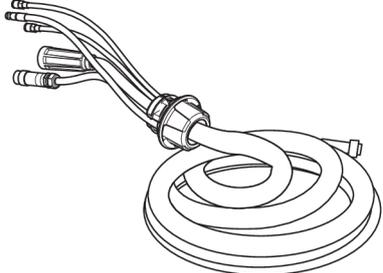
Technical documentation is available on the Internet at: www.esab.com

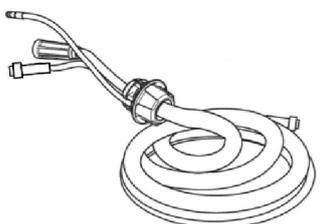
ACCESSORIES

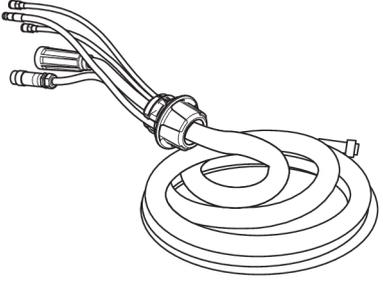
0446 600 880	RobustFeed Edge BX with EURO connector, torch cooling system and NFC	
0446 600 881	RobustFeed Edge CX with EURO connector, torch cooling system, NFC, heater and TrueFlow digital gas control	
0349 313 450	Trolley , compatible with RobustFeed Edge and Warrior Edge 500 For assembly instruction, refer to document 0463 357 102	
0465 416 880	Power source wheel kit For assembly instruction, refer to document 0463 360 101	
0447 518 880	Feeder mounting bracket to mount the feeder over the power source when the power source is on top of a wheel kit	
0448 181 880	Counter balance to provide stepped boom adjustment to set the wire feeder and welding torch in the way the welder wants to position it while welding.	

0465 427 880	Cooling unit, Cool2	
0465 720 002	ESAB ready mixed coolant (10 l / 2.64 gal) Use of any other cooling liquid than the prescribed one might damage the equipment. In case of such damage, all warranty undertakings from ESAB cease to apply.	

Interconnection cable with pre-assembled strain relief, air cooled, 70 mm²		
0446 310 880	2.3 m (7 ft)	
0446 310 881	5 m (16 ft)	
0446 310 882	10 m (33 ft)	
0446 310 883	15 m (49 ft)	
0446 310 884	20 m (66 ft)	
0446 310 885	25 m (82 ft)	
0446 310 886	35 m (115 ft)	
0446 310 887	50 m (164 ft)	

Interconnection cable with pre-assembled strain relief, liquid cooled, 70 mm²		
0446 310 890	2.3 m (7 ft)	
0446 310 891	5 m (16 ft)	
0446 310 892	10 m (33 ft)	
0446 310 893	15 m (49 ft)	
0446 310 894	20 m (66 ft)	
0446 310 895	25 m (82 ft)	
0446 310 896	35 m (115 ft)	

Interconnection cable with pre-assembled strain relief, air cooled, 95 mm²		
0446 310 980	2.3 m (7 ft)	
0446 310 981	5 m (16 ft)	
0446 310 982	10 m (33 ft)	
0446 310 983	15 m (49 ft)	
0446 310 984	20 m (66 ft)	
0446 310 985	25 m (82 ft)	
0446 310 986	35 m (115 ft)	
0446 310 987	50 m (164 ft)	

Interconnection cable with pre-assembled strain relief, liquid cooled, 95 mm²		
0446 310 990	2.3 m (7 ft)	
0446 310 991	5 m (16 ft)	
0446 310 992	10 m (33 ft)	
0446 310 993	15 m (49 ft)	
0446 310 994	20 m (66 ft)	
0446 310 995	25 m (82 ft)	
0446 310 996	35 m (115 ft)	



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