



## Cable, rubber return plate, international, 4.5 m

### Cable for reusable neutral electrodes

- > High voltage reliability
- > Autoclavable

### Scope of delivery

Incl. instructions for use

Product number: 385-050

Unit: 1 piece

Device connection: 2 pin international NON-REM

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Inquiry

Description

Specification

Download

Length	4.5 m
Total gross weight	162 G
Net weight	100 G
Electric strength	500 Vp
Monopolar / bipolar / passive	passive
Single-use / reusable	Reusable
Sterile / non-sterile	Non-sterile
Cleaning / Disinfecting	Autoclave
Preparation	200 cycles
Connector type	BOWA / Valleylab NON-REM
Permissible combinations	232-003, 242-003
Packaging unit	PCS (1 PCS)
Scope of delivery	Incl. instructions for use
CE conformity marking	YES
EU medical device classification	I
Manufacturer	BOWA-electronic GmbH & Co. KG

Do you still have any questions regarding the product?

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### JackKNIFE, 2 switches, shaft 2.4 mm, for 3-pin, cable 4.5 m

**Universal ergonomics in a modern design**

Scope of delivery  
 Incl. instructions for use  
**Product number: 220-045**  
 Unit: 1 piece

Electrode receiver: 2.4 mm
▼

Socket type: 3-pin International
▼

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Inquiry

Description	Specification	Download
<b>Size / Dimensions</b>	155 mm	
<b>Cable</b>	4.5 m	
<b>Net weight</b>	197 G	
<b>Net unit weight</b>	141 G	
<b>Electric strength</b>	6000 Vp	
<b>Monopolar / bipolar / passive</b>	Monopolar	
<b>Single-use / reusable</b>	Mehrweg	
<b>Sterile / non-sterile</b>	Unsteril	
<b>Cleaning / Disinfecting</b>	Autoclave	
<b>Preparation</b>	200 cycles	
<b>Connector type</b>	3-pin International	
<b>Permissible combinations</b>	2.4 mm electrodes	
<b>Packaging unit</b>	PCS (1 PCS)	
<b>Scope of delivery</b>	Incl. instructions for use	
<b>CE conformity marking</b>	YES	
<b>Notified body</b>	TÜV SÜD Product Service GmbH (0123)	
<b>EU medical device classification</b>	IIb	
<b>Manufacturer</b>	BOWA-electronic GmbH & Co. KG	

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**LLETZ electrodes**  
Monopolar loop electrodes for conisati...



**Electrodes, long**  
Reusable long electrodes for electrosu...



**Electrodes, short**  
Reusable short electrodes for electrosu...



### Knife electrode, straight, shaft 2.4 mm

Reusable short electrodes for electrosurgery

- With heat-resistant safety insulation
- Dielectric strength up to 5700 Vp
- Reusable

Scope of delivery  
Incl. instructions for use  
Product number: 530-207  
Unit: 1 pack (5 pcs.)

Type: Knife electrode ▼

Shape: Straight ▼

Shaft diameter: 2.4 mm ▼

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Inquiry

Description	Specification	Download
Size dimensions	2.5 x 15 mm	
Length	60 mm	
Shape	Straight	
Total gross weight	47 G	
Net unit weight	2 G	
Electric strength	5700 Vp	
Monopolar / bipolar / passive	Monopolar	
Single-use / reusable	Reusable	
Sterile / non-sterile	Non-sterile	
Cleaning / Disinfecting	Autoclave	
Preparation	75 cycles	
Permissible combinations	Reusable handles 2.4 mm, 105-045, 120-045, 218-045, 218-145, 220-045, 220-345, 327-045, 335-030	
Packaging unit	PAC (5 PCS)	
Scope of delivery	Incl. instructions for use	
CE conformity marking	YES	
Notified body	TÜV SÜD Product Service GmbH (0123)	
EU medical device classification	IIb	
Manufacturer	BOWA-electronic GmbH & Co. KG	
Note	shaft Ø 2.4 mm	

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## Monopolar cable, arthroscopy and LAP electrode, for 4 mm, 4.5 m

### Monopolar connection cable for electrosurgery

- > Robust plug with kink protection and strain relief
- > Ideal cleaning properties thanks to the round shape of the cable
- > Indelible laser marking for reliable identification
- > Extreme durability for up to 300 reprocessing cycles
- > For all common device types

### Scope of delivery

Incl. instructions for use

Product number: 280-035

Unit: 1 piece

Instrument type: BOWA MEDICAL LAP

Device connection: 4 mm Standard

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### Specification

### Download

Size / Dimensions	4 mm
Length	4.5 m
Total gross weight	166 G
Net unit weight	110 G
Electric strength	6000 Vp
Monopolar / bipolar / passive	Monopolar
Single-use / reusable	Reusable
Sterile / non-sterile	Non-sterile
Cleaning / Disinfecting	Autoclave
Preparation	300 cycles
Connector type	4 mm Standard
Permissible combinations	510-108, 510-109, 510-110, 510-112, 700-003, 700-004, 700-005, 700-006, 710-003, 710-004, 710-005, 710-006
Packaging unit	PCS (1 PCS)
Scope of delivery	Incl. instructions for use
CE conformity marking	YES
EU medical device classification	I
Manufacturer	BOWA-electronic GmbH & Co. KG

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## Monopolar cable, 2 mm socket, for 8 mm Bovie, 4.5 m

Monopolar and bipolar cables for resectoscopes and hysteroscopes

Scope of delivery

Incl. instructions for use

Product number: 375-045

Unit: 1 piece



Mono-/bipolar: Monopolar

Instrument type: 2mm socket

Device connection: 8 mm Bovie jack

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[Inquiry](#)

Description

Specification

Download

Dimensions

2 mm

Length

4.5 m

Total gross weight

179 G

Net unit weight

123 G

Electric strength

6000 Vp

Monopolar / bipolar / passive

Monopolar

Single-use / reusable

Reusable

Sterile / non-sterile

Non-sterile

Cleaning / Disinfecting

Autoclave

Preparation

300 cycles

Connector type

8 mm Bovie Jack

Permissible combinations

Resectoscopes with 2 mm connection socket

Packaging unit

PCS (1 PCS)

Scope of delivery

Incl. instructions for use

CE conformity marking

YES

EU medical device classification

I

Manufacturer

BOWA-electronic GmbH & Co. KG



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## Rubber return plate, adults, 250 x 150 mm, international

Reusable neutral electrodes for simple procedures

Product number: 242-003

Unit: 1 piece

Use: Adults

Connection: International

Reset selection

Inquiry



Description

Specification

Download

Size / Dimensions	375 cm <sup>2</sup>
Cable	0.5 m
Total gross weight	454 G
Net weight	279 G
Modality: Monopolar / bipolar / passive	Passive
Single-use / reusable	Reusable
Sterile / non-sterile	Non-sterile
Cleaning / Disinfecting	Autoclave
Preparation	75 cycles
Permissible combinations	194-075, 295-050, 385-050
Packaging unit	PCS (1 PCS)
CE conformity marking	YES
EU medical device classification	IIb
Manufacturer	BOWA-electronic GmbH & Co. KG
Note	non-split, for adults > 15 kg

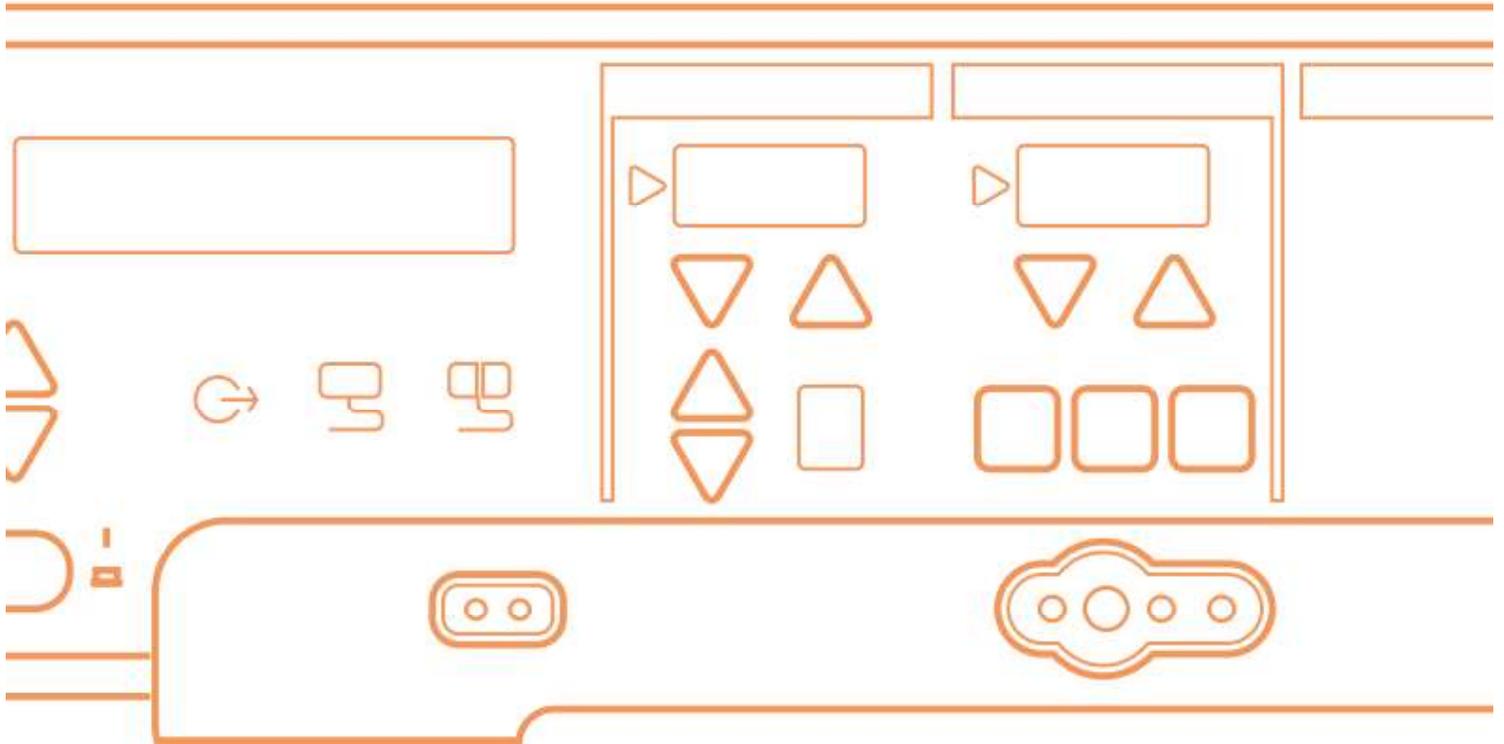
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SERVICE MANUAL

ELECTROSURGICAL UNIT



**BOWA**  
2A R C  
2000

**BOWA**  
2A R C  
2500

**BOWA**  
A R C  
300e

### 3. Design and operating principle

The electrosurgical unit consists of several sub-assemblies connected together as blocks or modules:

- Power board (70151)
- Control board (70150)
- Autostart board (70200)
- Front panel (70128)
- LWL board (70099)

The block diagram gives an overview of the components and their functions.

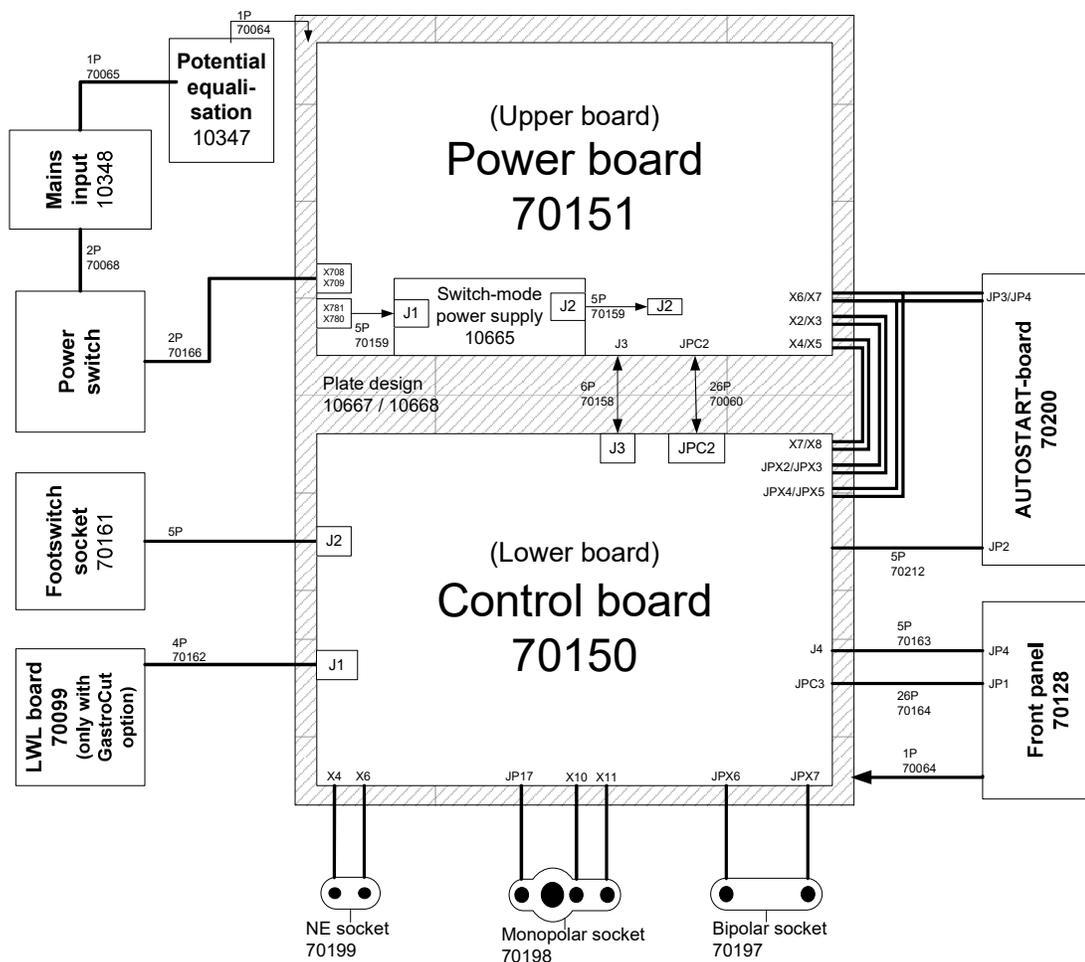


Figure 3-1: Block diagram

### 3.1. Power board

The power board contains all the circuits required to generate the HF power from mains-frequency current.

The power board is composed of various individual functions:

- Power rectifier (1)
- Power supply unit (2)
- Extra-low voltage power supply unit (3)
- Generator (4)
- Control electronics (5)

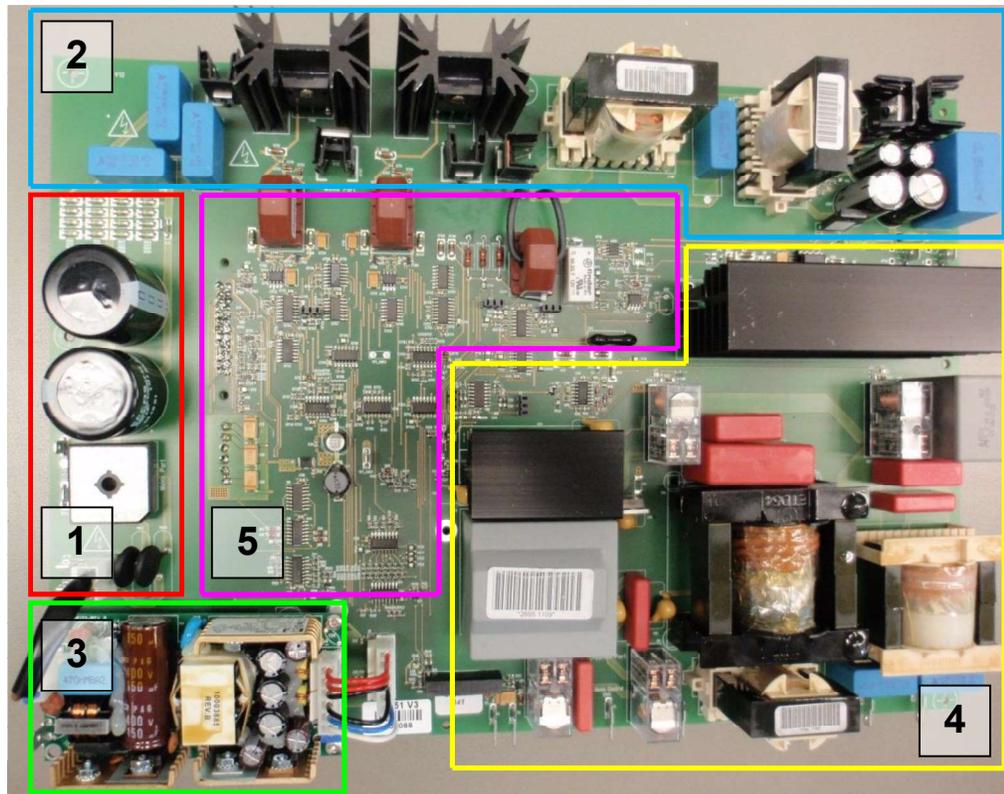


Figure 3-2: Power board (70151)

This is a translation of the certificate DE22/00000615

The management system of

# BOWA-electronic GmbH & Co. KG

Heinrich-Hertz-Strasse 4-10, DE 72810 Gomaringen

has been assessed and certified as meeting the requirements of  
**ISO 14001:2015**

For the following activities

Development, production, and distribution of medical devices for electrosurgery (cables, injection moulded parts, instruments, electronic assembly, toolmaking)

This certificate is valid from 22 December 2022 until 21 December 2025 and remains valid subject to satisfactory surveillance audits.

Issue 1. Certified since 22 December 2022



Authorised by  
Michael Rath  
Head of Certification Body

Authorised by  
ppa. Alexander Hirschhäuser  
Director KNS Germany

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# Certificate

No. Q5 016316 0021 Rev. 02

**Holder of Certificate:** **BOWA-electronic GmbH & Co. KG**  
Heinrich-Hertz-Strasse 4-10  
72810 Gomaringen  
GERMANY

**Certification Mark:**



**Scope of Certificate:** **Design and development, production and distribution of sterile and non-sterile medical devices: Electrosurgical Units and Accessories, Argon Coagulation Units and Accessories, Electrode Handles, Active Electrodes and Instruments, Monopolar and Bipolar Forceps, Endoscopic and Laparoscopic Instruments, Instruments for Vessel Sealing, Neutral Electrodes and Bipolar Scissors**

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: [www.tuvsud.com/ps-cert?q=cert:Q5 016316 0021 Rev. 02](http://www.tuvsud.com/ps-cert?q=cert:Q5 016316 0021 Rev. 02)

**Report No.:** 713229570

**Valid from:** 2022-03-02

**Valid until:** 2025-03-01

**Date,** 2022-03-02



Christoph Dicks

Head of Certification/Notified Body

# Certificate

No. Q5 016316 0021 Rev. 02

**Applied Standard(s):** EN ISO 13485:2016  
Medical devices - Quality management systems -  
Requirements for regulatory purposes  
(ISO 13485:2016)  
DIN EN ISO 13485:2016

**Facility(ies):** BOWA-electronic GmbH & Co. KG  
Heinrich-Hertz-Strasse 4-10, 72810 Gomaringen, GERMANY

Design and development, production and distribution of sterile and non-sterile medical devices:  
Electrosurgical Units and Accessories,  
Argon Coagulation Units and Accessories,  
Electrode Handles,  
Active Electrodes and Instruments,  
Monopolar and Bipolar Forceps,  
Endoscopic and Laparoscopic Instruments,  
Instruments for Vessel Sealing and  
Bipolar Scissors

Design and development and distribution of sterile and non-sterile medical devices:  
Neutral Electrodes

BOWA Polska Sp. zo. o.  
Zlotkowo, ul. Obornicka 10, 62-002 Suchy Las, POLAND

Production of sterile and non-sterile medical devices:  
Instruments for Vessel Sealing and  
Neutral Electrodes

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