

Charge the battery by connecting the device to the mains using power adaptor. In the standby mode the animation is shown in the lower part of the screen. After turning the device on, the animation of battery charging is shown in the tab.

The battery charge is shown in percents of full charge or as remaining time. You can set this option by pressing menu-unit settings-advanced settings-battery indication mode.

It is possible to start up to three therapies at a time when the device is connected to the mains. This is different when the device is powered from the battery pack. Then you can run only electrotherapy or ultrasound therapy or laser therapy. Combination of two electrotherapy channels when using battery pack is possible only in case of 4-pole interference. Combination of electrotherapy and ultrasound therapy when using battery pack is possible only in case of combination therapy.

6.2 ACCESSORIES FOR ELECTROTHERAPY

6.2.1 Standard Accessories

3.18.

- 1x electrode cable – light grey (twin cable, cable length: 280 ± 6 cm) for channel 1
- 1x electrode cables – dark grey (twin cable length: 280 ± 6 cm) for channel 2
- 4x plate electrodes 7 x 5 cm
- 4x electrode pads for electrodes 7 x 5 cm
- 1x set of elastic straps for the fixation of the electrodes

6.2.2 Optional Accessories

- plate electrodes 12 x 8 cm
- electrode pads for electrodes 12 x 8 cm
- adhesive electrodes 40 x 40 mm, REF PG871/40W
- adhesive electrodes 50 x 50 mm, REF PG871/50W
- adhesive electrodes 75 x 140 mm, REF PG477W
- adhesive electrodes 32 mm, REF PG479/32W
- adhesive electrodes 50 mm, REF PG479/50W
- ball electrode:
 - ball electrode tip – diameter 2 mm
 - ball electrode tip – diameter 6 mm
- vacuum unit BTL-Vac II
 - vacuum electrodes - diameter 60 mm
 - vacuum electrodes - diameter 90 mm

Standartiniai priedai:

- 1 elektrodų kabelis - šviesiai pilkas -1 kanalui
- 1 elektrodų kabelis - tamsiai pilkas -2 kanalui
- 4 plokšteliniai elektrodai
- 4 įmautės elektrodams
- 1 rinkinys elastinių diržų elektrodų fiksacijai - 4 vnt.

Vakuuminiai elektrodai 60 mm diametro



step of setting	1 second
accuracy of therapy time	±5 % of the set value
Accuracy of time values	5 seconds per 1 day

8.1 TYPES AND MODELS OF THE DEVICE

The device comes in two types: BTL-4000 Smart and BTL-4000 Premium. The particular model of the device is shown on the device label; the summary is in the table below. The models which support electrotherapy and have the numeral 5 in their name (e.g. BTL-4625 Smart) contain a HW key extending the portfolio of currents.

Device models containing electrotherapy, ultrasound therapy and laser therapy generators:

Model	Device label	Ultrasound therapy	Laser therapy	Electrotherapy
BTL-4620 Smart, BTL-4625 Smart				X
BTL-4620 Premium, BTL-4625 Premium				X
BTL-4710 Smart		X		
BTL-4710 Premium		X		
BTL-4110 Smart			X	
BTL-4110 Premium			X	
BTL-4820S Smart, BTL-4825S Smart		X		X
BTL-4820S Premium, BTL-4825S Premium		X		X
BTL-4820L Smart, BTL-4825L Smart			X	X
BTL-4800SL Smart		X	X	
BTL-4820SL Premium, BTL-4825SL Premium		X	X	X

8.2 TECHNICAL PARAMETERS OF ELECTROTHERAPY

3.11. Iščjimo srově CC režime - 140 mA

8.2.1 Parameters of the Electrotherapy Generator

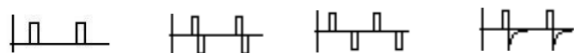
3.12. Iščjimo srově CV režime - 165 mA

3.11.	Output current in the CC mode*	3.11.	max. 140 mA (maximum instantaneous value)
3.12.	Output current in the CV mode*	3.12.	max. 165 mA (maximum instantaneous value)
	Output current at HVT*		max. 10 A (maximum instantaneous value)
	Output current at microcurrents*		max. 1,000 μ A (maximum instantaneous value)
	Output voltage in the CC mode*		max. 200 V (maximum instantaneous value)
	Output voltage in the CV mode*		max. 100 V (maximum instantaneous value)
	Output voltage at HVT*		max. 500 V (maximum instantaneous value)
	Output voltage at microcurrents*		max. 100 V (maximum instantaneous value)
	Tolerance of the output amplitude		± 20 %
16.8.	Tolerance of the time parameters of current		± 20 %
	Nominal load impedance		500 to 750 Ω
	Internal output resistance in the CV mode		50 $\Omega \pm 10$ %
	Internal output resistance in the CC mode		1 M $\Omega \pm 10$ %
	Output capacity		typically 150 pF
	Output polarity – can be selected		positive / negative / with reversal in the middle of the therapy
	Positive polarity		red banana plug = + = anode; black banana plug = - = cathode
	Negative polarity		red banana plug = - = cathode; black banana plug = + = anode

*for some currents the maximum value can be limited according to IEC 60601-2-10

8.2.2 Parameters of Individual Therapies – Currents

8.2.2.1 TENS



Type	symmetric, alternating, asymmetric, monophasic
Intensity - CC mode	0 to 140 mA
Intensity - CV mode	0 to 100 V
Pulse	10 to 1,000 μ s
Frequency	0.1 to 1,000 Hz
Pulse width modulation	automatic ± 30 %
Modulation	See Current Modulation below in this Chapter.
Channel mode	See Channel Mode below in this Chapter.

8.2.2.2 4-pole interference



Intensity - CC mode	0 to 100 mA
Intensity - CV mode	0 to 100 V
Carrier frequency	2,000 to 10,000 Hz
AMF	1 to 250 Hz
Spectrum	0 to 250 Hz
Frequency sweep	See Frequency Sweep below in this Chapter.