

**Anexa 212 Dispozitiv pentru electroterapie 400140, Model: PhysioGo 300A, Astar, Nr. de inregistrare AMDM: DM000663210**

Specificarea tehnică deplină solicitată, Standarde de referință	Specificarea tehnică deplină oferita, Standarde de referință
<p>Electroterapie Cod 400140 Descriere Destinat să asigure efect terapeutic asupra corpului uman cu un câmp magnetic alternativ neuniform. Parametru Specificație Ecran dimensiune <math>\geq 5</math> inch, color, touch-screen</p> <p>Canale independente <math>\geq 3</math> buc. Tipuri de curenti galvanic, diadinamic, interferential, Kotz, TENS, bifazic, faradic, dreptunghiular, triunghiular, sinusodal, microcurenti, Trabert Calcul automat al reobazei, cronaxiei obligatoriu Semnal stimulare CC si CV Intensitate maxima curent <math>\geq 120</math>mA Timpul de tratament diapazon minim 1-60 min</p> <p>Alarma finalizare tratament obligatoriu Librarie de protocoale interne de tratemant <math>\geq 200</math> protocoale Posibilitatea de creare a programelor de tratament de catre utilizator <math>\geq 100</math> programe Port USB sau analogic Tensiune 220V, 50 HZ Accesorii: Cabluri bipolare 4 buc., să se indice codul produsului Electrod electroterapie 4 buc., să se indice codul produsului Troleu dispozitiv 1 buc., să se indice codul produsului</p>	<p>Electroterapie Cod 400140 Descriere Destinat să asigure efect terapeutic asupra corpului uman cu un câmp magnetic alternativ neuniform. Parametru Specificație Ecran dimensiune 7 inch color, touch -screen-brosura</p> <p>Canale independente - 3 buc.- brosură Tipuri de curenti galvanic, diadinamic, interferential, Kotz, TENS, bifazic, faradic, dreptunghiular, triunghiular, sinusodal, microcurenti, Trabert - brosură Calcul automat al reobazei, cronaxiei -brosură Semnal stimulare CC si CV- brosură Intensitate maxima curent -140mA Timpul de tratament diapazon 30s-60 min-brosură</p> <p>Alarma finalizare tratament obligatoriu -brosură Librarie de protocoale interne de tratemant -204 protocoale Posibilitatea de creare a programelor de tratament de catre utilizator - 150 programe-brosură Port USB sau analogic Tensiune 220-230V, 50/60 HZ Accesorii: Cabluri pentru pacienti 4 buc. Electrod electroterapie 4 buc.</p> <p>Troleu dispozitiv 1 buc.- Versa X</p>



# PhysioGo 300A

Combination therapy  
Electrotherapy  
Ultrasound therapy



## Features

product code	A-UC-AST-PHG300A
color display with touch panel	7"
independent treatment channels	3
intensity regulation in the patient circuit for both channels simultaneously or separately	✓
electrode test	✓
manual mode	✓
disease entities selected by name or medical field	✓
preset treatment programs database	✓
preset treatment sequences database	✓
user-defined programs database	✓
user sequence database	✓
favorite programs	✓
possibility of program names and user sequences edition	✓
encyclopedia describing the treatment methodology	✓
statistics of performed treatment procedures	✓
buzzer sound volume regulation	✓
battery (optional accessory)	✓

## Electrotherapy

operation in CC (current stabilization) or CV (voltage stabilization) modes	✓
full galvanic isolation between channels in each mode	✓
Currents and methods	
interferential isoplanar	✓
interferential dynamic	✓
interferential single channel AMF	✓
TENS symmetric	✓
TENS asymmetric	✓
TENS alternating	✓
TENS burst	✓
TENS for spastic paralysis therapy	✓
Kotz' current (Russian stimulation)	✓
tonolysis	✓
diadynamic (MF, DF, CP, CP-ISO, LP)	✓
pulsed rectangular	✓
pulsed triangular	✓
pulsed UR according to Trabert (2 - 5)	✓
pulsed according to Leduc (1 - 9)	✓
pulsed neofaradic (1 - 19)	✓
unipolar sine surge	✓
galvanic	✓
microcurrents	✓

## Ultrasound therapy

waterproof ultrasound heads	✓
continuous / pulse emission	✓
ultrasound head contact control (effective treatment time measured)	✓
head sensitivity calibration according to the needs	✓

## Combined therapy

operation in CC (current stabilization) or CV (voltage stabilization) modes	✓
Currents and methods	✓
interferential single channel AMF	✓
TENS symmetric	✓
TENS asymmetric	✓
TENS alternating	✓
TENS burst	✓
Kotz' current (Russian stimulation)	✓

## Preset treatment programs

built-in treatment programs, including:	204
built-in treatment programs for electrotherapy	69
built-in treatment programs for ultrasound therapy	58
built-in treatment programs for combined therapy	77
user configurable programs	150
favorite programs	✓

## Preset treatment sequences

built-in treatment sequences for electrotherapy	38
user-defined sequences	10

## Electrotherapy technical parameters

max. current intensity in the patient circuit (CC mode)	
galvanic	40 mA
diadynamic, impulse	60 mA
interferential, Kotz' current	100 mA
unipolar sine surge	100 mA
TENS	140 mA
tonolysis	100 mA
microcurrents	1000 uA
max. voltage amplitude in the patient circuit (CV mode)	140 V
treatment timer	30 s - 60 minutes

## Ultrasound therapy technical parameters

operating frequency	1 & 3,5 MHz
effective radiation area	1 cm <sup>2</sup> , 4 cm <sup>2</sup>
maximum ultrasound wave intensity	2/3 W/cm <sup>2</sup>
frequency in pulse mode	16 Hz, 48 Hz, 100 Hz
duty factor in pulse mode	5 - 75 %, step 5%
treatment timer	30 s - 30 minutes

## General technical parameters

dimensions	34 x 28 x 11-16 cm
device weight	6 kg
battery type	Li-Ion
battery capacity	2250 mAh
power supply, power consumption	230 V, 50/60 Hz, 75 W, 90 VA



# Versa X trolley

## Trolleys

### Features

product code	A-AM-AST-VSX
compatibility with ASTAR units / accessories	✓
running system with brakes	✓
shelves height adjustment (second, third and for CPEP applicators)	✓

### General technical parameters

upper shelf load capacity	max 10 kg
total load capacity of the bottom shelf (with drawer and contents)	max 7 kg
bottom shelf adjustment range	approx. 50 cm
external dimension of the upper shelf (WxD)	58 x 39 cm
internal dimension of the upper shelf (WxD)	39,5 x 35 cm
external dimension of the bottom shelf (WxD)	40 x 26 cm
external dimension of the drawer (WxDxH)	39 x 33 x 9 cm
internal size of the drawer (WxDxH)	28,5 x 18,5 x 8 cm
trolley size (WxDxH)	58 x 49 x 89 cm
weight	23 kg

### Dedicated for

Sonaris M	✓
Sonaris S	✓
Polaris 2	✓
Etius	✓
Etius U	✓
Etius LM	✓
Etius ULM	✓
Polaris HP S	✓
Polaris HP M	✓
Impactis M	✓

Impactis M+	✓
PHG 100A	✓
PHG 200A	✓
PHG 300A	✓
PHG 400C	✓
PHG 500I	✓
PHG 601C	✓
PHG 701C	✓
PHG 701I	✓
PhysioGo.Lite LASER	✓
PhysioGo.Lite SONO	✓
PhysioGo.Lite ELECTRO	✓