

FastStart® HVPC



High Volt Pulsed Current Stimulator

Features and Benefits

- Digital, programmable, portable
- Custom or standard presets
- Microprocessor controlled
- LCD with compliance meter
- Ability to link presets with alternating polarities
- Battery pack or AC adapter

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Product Profile

Specifications

Power Source:	One (1) FastStart battery pack or AC adapter
Size:	5.25" x 2.8" x 1.35"
Weight:	9.3 oz with batteries
Tolerances:	All electrical specifications are ± 10 percent into a 500 ohm load using the AC adapter
Treatment Timer:	1 min - 8 hr or continuous
Compliance Timer:	0-999 hr, 59 min (41.66 days) in 1 min intervals Can be locked out from the patient Can be reset by the clinician
Number of Preset Programs:	Preprogrammed: 9 Available: 20
User Interface:	Custom LCD display - 2 rows of 8 characters Indicators for low battery & pause Flashing indicator to show current flow
Pulse Intensity:	0-330V peak in 5V increments
Pulse Shape:	Exponential spikes delivered in pairs
Pulse Duration:	5 μ s per pulse @ 50% of pulse amplitude
Pulse Frequency:	0-150 Hz in 1 Hz increments
Frequency Modulation:	40 sec modulation time 1-150 Hz, 10-20 Hz, 80-150 Hz
Simultaneous or Alternating Modes:	7 sec alternate w/2 sec ramp-up
Selectable Polarity:	Positive or Negative out of the active lead (red lead)
Automatic Switching to Next Preset:	1-20 Presets or OFF

Indications

- Relaxation of muscle spasms
- Prevention or retardation of disuse atrophy
- Increasing local blood circulation
- Muscle re-education
- Immediate post-surgical stimulation of calf muscles to prevent venous thrombosis
- Maintaining or increasing range of motion

Contraindication

Stimulators should not be used on patients with cardiac demand pacemakers

Adverse Reactions

- Skin irritation and burns beneath the electrodes have been reported with the use of stimulators.
- If you experience any initial symptoms of skin irritation due to the electrode, discontinue use immediately and consult a physician.

Warnings

- The long-term effects of chronic electrical stimulation are unknown
- Stimulation should not be applied over the carotid sinus nerves, particularly in patients with a known sensitivity to the carotid sinus reflex

CAUTION

Federal law restricts this device to sale by or on the order of a practitioner licensed by the law of the State in which he/she practices to use or order the use of the device.

- Stimulation should not be applied over the neck or mouth. Severe spasm of the laryngeal and pharyngeal muscles may occur and the contractions may be strong enough to close the airway or cause difficulty in breathing
- Stimulation should not be applied transthoracically in that the introduction of electrical current into the heart may cause cardiac arrhythmias
- Stimulation should not be applied transcerebrally
- Stimulation should not be applied over swollen, infected, or inflamed areas or skin eruptions, e.g. phlebitis, thrombophlebitis, varicose veins, etc.
- Stimulation should not be applied over, or in proximity to, cancerous lesions

Precautions

- Safety of stimulators for use during pregnancy has not been established
- Caution should be used for patients with suspected or diagnosed heart problems
- Caution should be used for patients with suspected or diagnosed epilepsy
- Caution should be used in the presence of the following:
 - When there is a tendency to hemorrhage following acute trauma or fracture;
 - Following recent surgical procedures when muscle contraction may disrupt the healing process;
 - Over the menstruating or pregnant uterus; and
 - Over areas of the skin which lack normal sensation
- Some patients may experience skin irritation or hypersensitivity due to the electrical stimulation or electrical conductive medium. The irritation can usually be reduced by using an alternative conductive medium or alternate electrode placement.
- Electrode placement and stimulation setting should be based on the guidance of the prescribing practitioner.
- Keep out of reach of children.
- Use only with the leads and electrodes recommended for use by the manufacturer.
- Portable stimulators should not be used while driving, operating machinery, or during any activity in which involuntary muscle contractions may put the user at undue risk of injury.