

## Chapter 8 : TECHNICAL SPECIFICATION

The technical specification details of EMS 500 are as follows.

	MECHANISM	TECHNICAL DESCRIPTION
01.	Channel	Dual, isolated between channels.
02.	Intensity Control	Adjustable, 0-90 mA Max output 90mA (peak to peak) into 500 ohm load each channel
03.	Wave Form	Asymmetrical Bi-Phase Square Pulse
04.	Voltage	Adjustable, 0-45V Max output 45V (Peak to Peak) into 500 ohm load each channel.
05.	Power Supply	One 9V battery.
06.	Size	10cm (L) x 6 cm(W) x 2.1cm(H)
07.	Weight	120 grams with battery
08.	Pulse Rate	Adjustable, from 1 Hz to 150 Hz, 1 Hz/Step
09.	Pulse Width	Adjustable, from 30 uS to 260 uS, 10 uS/Step
10.	Contraction Time	Adjustable from 1 - 30 seconds , 1 Sec./Step
11.	Relaxation Time	Adjustable from 1 - 30 seconds , 1 Sec./Step
12.	Ramp Time	Adjustable from 1 - 6 seconds , 1 Sec./Step
13.	Timer	Adjustable : 1 - 60 minutes, 1 Sec./Step
14.	Max. Charge per pulse	20 micro – coulombs
15.	Remark	There may be up to a +/- 5% tolerance of all parameters and +/-20% tolerance of amplitude & voltage.