

Safe-T Sim™ ST-1-IEC Electrical Safety Analyzer Specifications

Physical Dimensions	
Size	5" x 6" x 2.5"
Weight	2 lbs.
Environmental	
Operating Temperature	15 °C to 40° C (50° F to 104° F) Relative humidity 20%-80% Non-condensing.
Operating Altitude	0 - 3000 meters
Storage Temperature	- 20° C to + 60° C (- 4° F to + 140° F)
Power	
AC operation	90 – 132 VAC 60hz
DC operation	AA Alkaline, 15 hrs. continuous Sleep Mode 168 hrs.
Display	OLED
Modes of Operation	
Auto, Manual, ECG, Respiration Simulation	
Connectivity	
Wireless	Bluetooth 4.0
USB	Upload Custom Test Profiles
Test Standards	
Model ST-1-IEC: IEC 60601, 62353	
Mains	
Range	90 VAC - 132 VAC, 57– 63 Hz, 20 Amps Max. (Units with S/W 1.4 or lower = 15 Amps Max.)
Accuracy	± (2% Reading +1V)
Resolution	1 VAC
Earth Resistance	
Current Applied	>200 mA, both polarities
Range	0 – 20 Ohms
Resolution	Below 10 Ohms: 0.001 10-20 Ohms: 0.1
Accuracy	± (1% Reading + 0.010 Ohms)

Leakage			
Range	0.0 uA – 5000 uA		
Accuracy	DC - 1Khz	± (1% Reading+1uA)	
	1Khz - 100Khz	± (2.5% Reading+1uA)	
	100Khz - 1Mhz	± (5% Reading+1uA)	
Resolution	Below 1mA: 1uA Above 1mA: 0.001mA		
Lead Isolation	100% ± 25% of Mains		
DUT Current			
Range	0.0 to 20.0 Amps (Units with S/W 1.4 or lower = 15 Amps Max.)		
Accuracy	± (5% Reading + 0.1 Amps)		
Duty Cycle	0-10 Amp: Continuous* 10-15 Amp: 4 hrs.* 15 to 20 Amp: 3 min on/3 min off* *at 22 ° C, 72 ° F ambient temp.		
Resolution	0.1 Amp		
ECG			
Range	30 – 250 BPM, selectable in 1 BPM increments		
Accuracy	± 1 BPM		
R Wave Size	1 mv at 60 BPM ± 10%		
Respiration			
Range	0 - 100 RR, selectable in 1 RR increments		
Accuracy	± 1 RR		
ECG/Respiration Auto Sequence			
	ADULT	PEDS	NEO
ECG (BPM)	30,60,180	30,80,120	80,140,220
RESP (RR)	8,20,40	8,16,40	20,40,60