

HeartSine samaritan® PAD 500P with CPR Advisor

Cardiac Science Powerheart® G5 Product Comparison



HeartSine samaritan® PAD 500P

Cardiac Science Powerheart® G5



10-YEAR WARRANTY

- ✓ **ICG-based CPR feedback**
- ✓ Compact, portable, lightweight (2.4 lbs/1.1 kg)
- ✓ Highest level of protection from dust and moisture ingress in the industry (IP56)
- ✓ **Integrated battery and electrodes**
- ✓ ICG-based CPR feedback
- ✓ 4-year electrode life
- ✓ One item to track and replace after use or upon expiration
- ✓ **10-year warranty**
- ✓ Low escalating energy protocol (SCOPE)
- ✓ Operating impedance range of 25 – 230 ohms
- ✓ Audible and visual metronome for CPR rate guidance
- ✓ Carry case included
- ✓ Audible and visual prompts for ease of use in a noisy environment
- ✓ 90-minute ECG recording time
- ✓ Automatic self test
- ✓ Pediatric compatible
- ✓ Field upgradeable to latest AHA/ERC guidelines
- ✓ **Lower total cost of ownership; acquisition and operating expense**

- ✗ Force transducer-based CPR feedback
- ✗ Larger, heavier (5.5 lbs/2.5 kg)
- ✗ Lower water resistance rating (IP55)
- ✗ Separate battery and electrodes
- ✗ Simple mechanical CPR feedback
- ✗ 2-year electrode life
- ✗ Two items to track and replace after use or upon expiration
- ✗ 7-year warranty
- ✗ High energy protocol
- ✗ Operating impedance range of 30 – 180 ohms
- ✗ Audible metronome optional (extra)
- ✗ Carry case optional (extra)
- ✓ Audible and visual prompts for ease of use in a noisy environment
- ✓ 90-minute ECG recording time
- ✓ Automatic self test
- ✓ Pediatric compatible
- ✓ Field upgradeable to latest AHA/ERC guidelines

Heartsine samaritan® PAD 500P Technical Overview



Physical	With Pad-Pak™ Inserted
Size:	8.0 in x 7.25 in x 1.9 in (20 cm x 18.4 cm x 4.8 cm)
Weight:	2.4 lbs (1.1 kg) including Pad-Pak Battery

Defibrillator	
Waveform:	Self-Compensating Output Pulse Envelope (SCOPE) Biphasic waveform. Optimized biphasic escalating waveform compensates energy, slope and envelope for patient impedance

Patient Analysis System	
Method:	Evaluates patient's ECG, signal quality, electrode contact integrity and patient impedance to determine if defibrillation is required
Sensitivity/Specificity:	Meets ISO 60601-2-4 and AAMI DF80

Environmental	
Operating/Standby Temperature:	+32°F to +122°F (0°C to 50°C)
Temporary Transportation Temperature:	14°F to 122°F (-10°C to 50°C) for up to two days. Unit must be returned to standby/operating temperature for 24 hours before use.
Relative Humidity:	5% to 95% (non-condensing)
Water Resistance:	IEC 60529/EN 60529 IP56
Altitude:	0 to 15,000 feet (0 – 4,575 meters)
Shock:	MIL STD 810F Method 516.5, Procedure I (40 G's)
Vibration:	MIL STD 810F Method 514.5+ Category 4 Truck Transportation – US Highways Category 7 Aircraft – Jet 737 & General Aviation (Exposure)
EMC:	EN 60601-1-2
Radiated Emissions:	EN55011
Electrostatic Discharge RF Immunity:	EN61000-4-3 80MHZ-2.5GHZ (10 V/m)
Magnetic Field Immunity:	EN61000-4-8 (3 A/m)
Aircraft:	RTCA/DO-160F, Section 21 (Category M)
Falling Height:	3.3 feet (1 meter)

Energy Selection	
Adult:	Shock 1: 150J; Shock 2: 150J; Shock 3: 200J
Pediatric:	Shock 1: 50J; Shock 2: 50J; Shock 3: 50J

Charging Time	
New Battery:	Typically 150J in < 8 seconds, 200J in < 12 seconds
After 6 Discharges:	Typically 150J in < 8 seconds, 200J in < 12 seconds

Event Documentation	
Type:	Internal Memory
Memory Capacity:	90 minutes of ECG (full disclosure) and event/incident recording
Playback Capabilities:	Custom USB cable directly connected to PC and Saver™ EVO Windows-based data review software

Materials Used	
samaritan® PAD 500P:	ABS, Santoprene. Printed circuit board with electronic components.
Housing:	ABS – Electrodes: Hydrogel, Silver, Aluminium and Polyester

Pad-Pak – Electrode and Battery Cartridge	
Adult Pad-Pak (Pad-Pak-01) and Pediatric Pad-Pak (Pad-Pak-02)	
Shelf Life:	4 years from manufacture date
Weight:	0.44 lbs (0.2 kg)
Size:	3.93 in x 5.24 in x .94 in (10 cm x 13.3 cm x 2.4 cm)
Battery Type:	Lithium Manganese Dioxide (LiMnO2)
Capacity:	> 60 shocks at 200J 18V, 1.5 Amp Hrs
Electrodes:	HeartSine samaritan® disposable defibrillation pads are supplied as standard with each device
Placement:	Anterior-lateral (Adult); Anterior-posterior (Pediatric)
Active Gel Area:	15.5 in² (100 cm²)
Cable Length:	3.3 feet (1 meter)

Lifesaving, Pure and Simple

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The products described in this brochure all meet the applicable European Medical Directive requirements.

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CAUTION:
U.S. Federal law restricts this device to sale by or on the order of a licensed practitioner.



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