HeartStart OnSite defibrillator specifications

Defibrillator		Patient analysis	system	
Defibrillator family Standard configuration	HS1. Order M5066A Defibrillator, battery, adult SMART Pads cartridge (1 set), Setup and Maintenance Guides, Owner's	Patient analysis	Evaluates patient ECG to determine if a rhythm is shockable. Rhythms considered shockable are ventricular fibrillation (VF) and certain ventricular tachycardias (VT) associated with lack of circulation. For safety reasons, some VT rhythms associated with circulation will not be interpreted as shockable, and some very low-amplitude or low-frequency rhythms will not be interpreted as shockable VF.	
HeartStart OnSite Ready-Pack	Manual, Quick Reference Guide, date sticker Order option R01. Defibrillator, battery, carry case, adult SMART Pads (1 pre-installed set, 1 spare set), Setup and Maintenance Guides, Owner's			
configuration Waveform	Manual, Quick Reference Guide, date sticker Truncated Exponential Biphasic; waveform parameters adjusted as a function of each	Quick Shock	Able to deliver a shock after the end of a CPR interval, typically in 8 seconds	
Therapy	patient's impedance Adult defibrillation: peak current 32 A	Sensitivity/ specificity	Meets AAMI DF80 guidelines and AHA recommendations for adult defibrillation (Circulation 1997;95:1677-1682)	
	(150 J nominal into a 50-ohm load) Pediatric defibrillation with optional Infant/ Child SMART Pads cartridge installed: peak current 19 A (50 J nominal into 50-ohm load)	Artifact detection	The effects of pacemaker artifact and electrical noise are minimized	
Shock-to-shock	Typically less than 20 seconds between shocks	Type 9 Volt DC, 4.2 Ah, composed of disposable		
Cycle time	in a series		long-life lithium manganese dioxide primary cells	
Quick Shock	Able to deliver a shock after the end of a CPR interval, typically in 8 seconds	Capacity	Minimum 200 shocks or 4 hours of operating time (EN 60601-2-4:2003)	
Voice instructions	Detailed voice messages guide responder through use of the defibrillator	Install-by date	Battery is labeled with an install-by date of at least 5 years from date of manufacture	
CPR coaching	Instructions for adult or infant/child CPR available at user's option	Standby life	Four years typical when battery is installed by the install-by date (will power the AED in standby state within the specified standby temperature range, assuming 1 battery	
Shock delivery	Via adhesive pads placed on patient's bare skin as illustrated on pads			
Controls	Green SMART Pads cartridge handle, green On/Off button, blue i-button, orange Shock button	insertion test and no defibrillation uses) SMART Pads		
Indicators	Ready light; blue i-button; caution light, Shock button lights up when shock is advised	Adult SMART Pads cartridge	M5071A defibrillation pads for patients 8 years of age and older or 25 kg (55 lbs.) and over	
Physical		Infant/Child	M5072A defibrillation pads for patients	
Size	7 cm x 19 cm x 21 cm (2.8" x 7.4" x 8.3") D x H x W	SMART Pads cartridge	under 8 years of age or 25 kg (55 lbs.); by prescription only	
Weight	With battery and pads cartridge: 1.5 kg (3.3 lbs.) Without battery or pads cartridge: 1 kg (2.4 lbs.)	Active surface area	85 cm² (13.2″²) each	
Environmental/physical requirements		Cable length	Adult SMART Pads: 137.1 cm (54")	
Sealing	Solid objects per EN60529 class IP2X Drip-proof per EN60529 class IPX1	Use-by date	Infant/Child SMART Pads: 101.6 cm (40") Cartridge is labeled with a use-by date of	
Temperature	Operating: 0° – 50° C (32° – 122° F) Standby: 10° – 43° C (50° – 109° F)	Training SMART	at least 2 years from date of manufacture	
Humidity	Operating: 0% to 95% relative, non-condensing	M5073A	Adult Training SMART Pads cartridge	
Altitude	Standby: 0% to 75% relative, non-condensing Operating: 0 to 15,000 feet	M5074A	Infant/Child Training SMART Pads cartridge	
Altitude	Standby: 0 to 8,500 feet > 48 hours and 8,500 to 15,000 feet < 48 hours	Function	Training SMART Pads cartridges feature 8 real-world training scripts; used with training	
Shock/drop abuse	Withstands one-meter drop to any edge, corner or surface		mat (included) or with adapters on manikins	
Vibration	Meets EN1789 random and swept sine,	Automated and user-activated self-tests		
	road ambulance specification in operating and standby states	Daily automatic self-tests	Tests internal circuitry, waveform delivery system, pads cartridge, and battery capacity	
EMI (radiated/ immunity)	Meets EN55011 Group 1 Level B Class B and EN61000-4-3	Pads integrity test	Specifically tests readiness-for-use of pads (gel moisture)	
Data recording	g and transmission	Battery insertion test	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness	
Infrared	Wireless transmission of event data to a Smartphone or PC, using the IrDA protocol			
Data stored	First 15 minutes of ECG and the entire incident's events and analysis decisions	Status Indicators	Blinking green "Ready" light indicates ready for use; audible "chirp" indicates need for maintenance	

^{*} Refer to the HeartStart OnSite Defibrillator Owner's Manual for detailed product instructions. All specifications based on 25° C unless otherwise noted. The defibrillator and its accessories are made of latex-free materials.