

HeartStart OnSite Defibrillator specifications

| Defibrillator | |
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| Defibrillator family | HSI. Order M5066A |
| Standard configuration | Defibrillator, battery, adult SMART Pads cartridge (1 set), Setup and Maintenance Guides, Owners Manual, Quick Reference Guide, Date sticker |
| HeartStart OnSite Ready-Pack configuration | Order option R01. Defibrillator, battery, carry case, adult SMART Pads (1 pre-installed set, 1 spare set), Setup and Maintenance Guides, Owners Manual, Quick Reference Guide, Date Sticker |
| Waveform | Truncated Exponential Biphasic Waveform parameters adjusted as a function of each patient's impedance |
| Therapy | Adult defibrillation: Peak current 32A (150 J nominal into a 50-ohm load). Pediatric defibrillation with optional Infant/Child pads cartridge installed: Peak current 19A (50 J nominal into 50-ohm load) |
| Shock-to-Shock cycle time | Typically less than 20 seconds between shocks in a series |
| Quick Shock | Able to deliver a shock after the end of a CPR interval, typically in 8 seconds |
| Voice instructions | Detailed voice messages guide responder through use of the defibrillator |
| CPR coaching | Instructions for adult or infant/child CPR available at user's option |
| 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 |
| Indicators | Ready light; blue i-button; caution light, Shock button lights up when shock is advised |
| Physical | |
| Size | 2.8" x 7.4" x 8.3" (7 cm x 19 cm x 21 cm) D x H x W. |
| Weight | With battery and pads cartridge: 3.3 lbs. (1.5 kg) Without battery or pads cartridge: 2.4 lbs. (1 kg) |
| Environmental/Physical Requirements | |
| Sealing | Solid objects per EN60529 class IP2X Drip-proof per EN60529 class IPX1 |
| Temperature | Operating: 32° - 122° F (0° - 50° C) Standby: 50° - 109° F (10° - 43° C). |
| Humidity | Operating: 0% to 95% relative, non condensing Standby: 0% to 75% relative, non-condensing |
| Altitude | Operating: 0 to 15,000 feet Standby: 0 to 8,500 feet > 48 hours and 8,500 to 15,000 feet < 48 hours |
| Shock/drop abuse | Withstands 1-meter drop to any edge, corner or surface |
| Vibration | Meets EN1789 random and swept sine, road ambulance specification in operating and standby states |
| EMI (radiated/immunity) | Meets EN55011 Group 1 Level B Class B and EN61000-4-3 |
| Data Recording and Transmission | |
| 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 |

| Patient analysis system | |
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| 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 |
| Quick Shock | Able to deliver a shock after the end of a CPR interval, typically in 8 seconds |
| Sensitivity/specificity | Meets AAMI DF80 guidelines and AHA recommendations for adult defibrillation (Circulation 1997;95:1677-1682) |
| Artifact detection | The effects of pacemaker artifact and electrical noise are minimized |
| Battery (M5070A) | |
| Type | 9 Volt DC, 4.2 Ah, composed of disposable long-life lithium manganese dioxide primary cells |
| Capacity | Minimum 200 shocks or 4 hours of operating time (EN 60601-2-4:2003) |
| Install-by date | Battery is labelled with an install-by date of at least 5 years from date of manufacture |
| 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 insertion test and no defibrillation uses) |
| SMART Pads | |
| Adult SMART Pads cartridge | M5071A defibrillation pads for patients 8 years of age and older or 55 lbs. (25 kg) and over |
| Infant/child SMART Pads cartridge | M5072A defibrillation pads for patients under 8 years of age or 55 lbs. (25 kg). By prescription only |
| Active surface area | 13.2'' ² (85 cm ²) each |
| Cable length | Adult pads: 54" (137.1 cm) Infant/Child pads: 40" (101.6 cm) |
| Use-by date | Cartridge is labelled with a use-by date of at least 2 years from date of manufacture |
| Training Pads | |
| M5073A | Adult Training Pads cartridge |
| M5074A | Infant/Child Training Pads cartridge |
| Function | Training pads feature 8 real-world training scripts. Used with training mat (included) or with adapters on manikins |
| Automated and User-activated Self-tests | |
| Daily automatic self-tests | Tests internal circuitry, waveform delivery system, pads cartridge, and battery capacity |
| Pads integrity test | Specifically tests readiness-for-use of pads (gel moisture) |
| Battery insertion test | Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness |
| 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