

# PHILIPS

## HeartStart Home Defibrillator

# More than 68% of all cardiac arrests happen in the home<sup>1</sup>

## Be prepared with the Philips HeartStart Home Defibrillator

Welcome to added peace of mind with the easy, safe and reliable home defibrillator from Philips. Our HeartStart Home Defibrillator is:

### Easy to use

- Provides real-time guidance through step-by-step voice commands and CPR guidance.
- Use your home defibrillator with confidence – HeartStart is virtually ready-to-rescue right out of the box.
- Go at your own pace – integrated SMART Pads placed on the victim's bare skin sense and adapt the defibrillator's instructions to your actions every step of the way. If you may need to defibrillate an infant or a child under 25 kg (55 pounds) or 8 years old, it is recommended that you order the infant/child SMART Pads Cartridge, available separately.

### Safe

- Trust the innovation of HeartStart Home, the first and only defibrillator available without a prescription.
- Use the defibrillator on patients of any age, including infants and children.<sup>2</sup>

- Personalized therapy – the HeartStart Home Defibrillator automatically determines if a shock is necessary and provides the right therapy for each individual person.

### Reliable

- Deliver shock treatment after CPR, typically within 8 seconds, with our patented Quick Shock technology, among the fastest in its class.



# HeartStart Home defibrillator specifications

| Defibrillator family                |   |
|-------------------------------------|---|
| Defibrillator family                | HS1, order M5068A, option C01   |
| Standard configuration              | Defibrillator, slim carry case, with pre-installed battery, adult SMART Pads cartridge (1 set), Quick Reference Guide, Setup Guide, Owner's Manual, 911 reminder sticker, training coupons, training DVD, enrollment card, Quick Start poster |
| Waveform                            | Truncated Exponential Biphasic; waveform parameters adjusted as a function of each patient's impedance  |
| Therapy                             | Adult defibrillation: peak current 32 A (150J 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)                               |
| 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 guidance                        | Verbal instructions for adult and infant/child CPR provides instructions and audio cues for the appropriate number, rate, and depth of chest compressions, as well as for each breath   |
| 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                                | 2.85 in H x 7.40 in D x 8.30 in W (7.2cm H x 19cm D x 21cm W)   |
| Weight                              | With battery and pads cartridge: 1.5 kg (3.3 lbs.)<br>Without battery or pads cartridge: 1 kg (2.4 lbs.)  |
| Environmental/physical requirements |   |
| Sealing                             | Solid objects per EN60529 class IP2X drip-proof per EN60529 class IPX1  |
| Temperature                         | Operating: 0° - 50° C (32° - 122° F)<br>Standby: 10° - 43° C (50° - 109° F)   |
| Humidity                            | Operating: 0% to 95% relative, non-condensing<br>Standby: 10% to 75% relative, non-condensing   |
| Altitude                            | Operating: 0 to 15,000 feet<br>Standby: 0 to 8,500 feet > 48 hours and 8,500 to 15,000 feet < 48 hours  |
| Shock/drop abuse                    | Withstands one-meter drop to any edge, corner or surface  |
| Vibration                           | Operating: meets EN1789 random, road ambulance.<br>Standby: meets EN1789 swept sine, road ambulance.  |
| 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                 |  |
|---|--|
| 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                      | HS1 can detect artifact and advise to stop movements or will pause analysis briefly, but does not minimize the artifact  |
| 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  |
| Install-by date                         | Battery is labeled 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)   |
| Infant/Child SMART Pads (optional)      |  |
| Adult SMART Pads cartridge              | M5071A defibrillation pads for patients 8 years of age and older or 25 kg (55 lbs.) and over   |
| Infant/Child SMART Pads                 | M5072A defibrillation pads for patients under 8 years of age or 25 kg (55 lbs.); cartridge by prescription only  |
| Active surface area                     | 85 cm <sup>2</sup> (13.2"²) each   |
| Cable length                            | Adult SMART Pads: 137.1 cm (54")<br>Infant/Child SMART Pads: 101.6 cm (40")  |
| Use-by date                             | Cartridge is labeled with a use-by date of at least 2 years from date of manufacture   |
| Training SMART Pads (optional)          |  |
| M5073A                                  | Adult Training SMART Pads cartridge  |
| M5074A                                  | Infant/Child Training SMART Pads cartridge   |
| Function                                | Training SMART Pads cartridges 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)  |
| Batteryinsertion test                   | Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness  |
| StatusIndicators                        | Blinking green "Ready" light indicates ready for use; audible "chirp" indicates need for maintenance   |

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1. American Heart Association. (2018). AHA Releases Latest Statistics on Sudden Cardiac Arrest. Retrieved October 9, 2019 from <https://www.sca-aware.org/sca-news/aha-releases-latest-statistics-on-sudden-cardiac-arrest>.
2. The Infant/Child pads cartridge is sold separately, and available only under the order of a physician, by prescription only.