

# PHILIPS® HEARTSTART™ ONSITE AED DEFIBRILLATOR



Typical Manufacturer's Picture

- Designed to be the easiest to use
- Small and light weight
- Uses clear, natural voice instructions

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## Specifications

### Defibrillator

### Waveform

Truncated Exponential Biphasic. Waveform parameters adjusted as a function of patient impedance.

Single energy output.

### Energy

Adults: nominal 150 Joules into a 50 ohm load.

Infant/Child: nominal 50 Joules into a 50 ohm load.

Automatically set based on type of SMART Pads cartridge installed.

### Shock-to-Shock Cycle Time

Typically less than 20 seconds between shocks in a series.

### Quick Shock

Able to deliver a shock after the CPR pause typically in eight seconds.

### Voice Instructions

Detailed voice messages guide responder through use of the defibrillator.

### CPR Voice Coaching

Voice instructions in adult and 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



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<b>Indicators</b>	button, Blue i-button, Orange shock button. Ready light; Blue i-button; Caution light.
<b>Physical</b>	
<b>Size</b>	
<b>Height</b>	2.8 inches (7 cm)
<b>Width</b>	8.3 inches (21 cm)
<b>Depth</b>	7.4 inches (19cm)
<b>Weight</b>	
<b>With battery and pads cartridge</b>	3.3 lbs (1.5 kg)
<b>Without battery or pads cartridge</b>	2.4 lbs (1 kg)
<b>Environmental/Physical Requirements</b>	
<b>Sealing</b>	Drip proof per EN60529 class IPX1. Solid Objects per EN60529 class IP2X.
<b>Temperature</b>	Operating: 32° - 122° F (0° - 50° C) Standby: 50° - 109° F (10° - 43° C)
<b>Humidity</b>	Operating: 0% to 95% relative, non-condensing Standby: 0% to 75% relative, non-condensing
<b>Altitude</b>	Operating: 0 to 15,000 feet Standby: 0 to 8,500 feet >48 hours and 8,500 to 15,000 feet <48 hours
<b>Shock/Drop Abuse</b>	Withstands 1 meter drop to any edge, corner or surface.
<b>Vibration</b>	Meets EN1789 random and swept sine, road ambulance specification in operating and standby states.
<b>EMI (Radiated/Immunity)</b>	Meets EN55011 Group 1 Level B Class B and EN61000-4-3.
<b>Patient Analysis System</b>	Evaluates patient ECG and signal quality to determine if a rhythm is shockable and evaluates connection impedance for proper defibrillation pad contact. Rhythms considered shockable are ventricular fibrillation (VF), and certain ventricular tachycardias (VT) associated with lack of circulation, including ventricular flutter and polymorphic ventricular tachycardia. 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.
<b>Patient Analysis</b>	
<b>Sensitivity/Specificity</b>	Meets AAMI DF80 guidelines and AHA



	recommendations for adult defibrillation( <i>Circulation</i> 1997;95:1677-1682).
<b>Artifact Detection</b>	The effects of pacemaker artifact and electrical noise are minimized with artifact detection.
Battery (M5070A)	
<b>Type</b>	9 Volt DC, 4.2 Ah, composed of disposable long-life lithium manganese dioxide primary cells.
<b>Capacity</b>	Minimum 200 shocks or 4 hours of operating time.
<b>Install-By Date</b>	Battery is labeled with an install-by date of at least five years from date of manufacture. 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 one battery insertion test and no defibrillation uses.)
<b>Standby Life</b>	
<b>SMART Pads</b>	
<b>Adult SMART Pads Cartridge</b>	M5071A defibrillation pads for patients 8 years of age and older or 55 lbs. (25 kg) and over.
<b>Infant/Child SMART Pads Cartridge</b>	M5072A defibrillation pads for patients under 8 years of age or 55 lbs. (25 kg).
<b>Energy Delivered</b>	Adult: nominal 150 Joules into a 50 ohm load. Infant/Child: nominal 50 Joules into a 50 ohm load.
<b>How Supplied</b>	Disposable cartridge, containing adhesive defibrillation pads, clicks into defibrillator for an integrated pads solution.
<b>Active Surface Area</b>	13.2 in <sup>2</sup> (85 cm <sup>2</sup> ) each
<b>Cable Length</b>	Adult pads: 54 inch (137.1 cm) Infant/Child pads: 40 inch (101.6 cm)
<b>Use-By Date</b>	Cartridge is labeled with a use-by date of at least two years from date of manufacture.
<b>Training Pads</b>	
<b>Adult Training Pads Cartridge</b>	M5073A
<b>Infant/Child Training Pads Cartridge</b>	M5074A
<b>Function</b>	Special pads place HeartStart OnSite into training mode and disable its energy delivery capability. Feature 8 real-world training scripts.
<b>Automated and User Activated Self Tests</b>	



<b>Daily Automatic Self-tests</b>	Tests internal circuitry, waveform delivery system, pads cartridge and battery capacity.
<b>Pads Integrity Test</b>	Specifically tests rediness- for use of pads (gel moisture).
<b>Battery Insertion Test</b>	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness.
<b>Status Indicator</b>	Blinking green Ready light indicates ready for use.
<b>Data Recording and Transmission</b>	
<b>Infrared</b>	Wireless transmission of event data to personal computer using the IrDA protocol.
<b>HeartStart Event Review Software</b>	Data management software (optional) for download and review of data retrieved through defibillator's infrared data port.
<b>Data Stored</b>	First 15 minutes of ECG and the entire incident's events and analysis decisions.

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