

# The Power to Save Lives is in Your Hands



Powerheart® AEDs in Schools

# Empower Your School to Save Lives

## Discover why schools rely on Powerheart® AEDs

Parents count on school administrators to keep their children safe – in class, in the halls, and on the athletic fields. By becoming your school's advocate for automated external defibrillators (AEDs), you are taking an important step toward protecting them from needless sudden cardiac arrest (SCA) deaths.

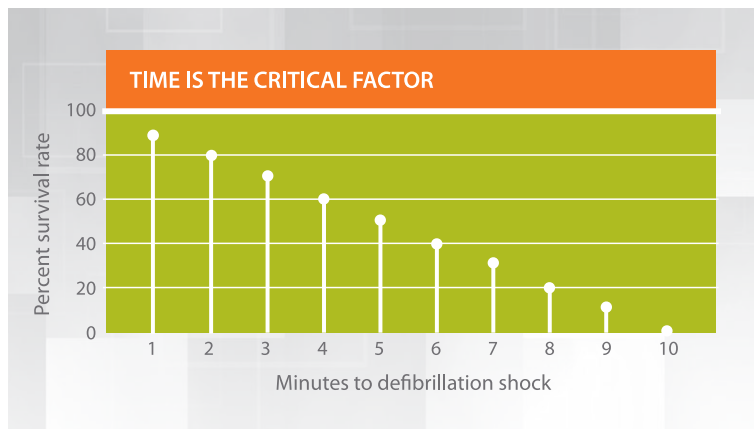
### Doing the math

Every year, approximately 369,000 people in the United States<sup>1</sup> fall victim to SCA, including 7,000 children. Data estimate that one in 50 high schools has an SCA incident – either student or faculty – on school grounds each year.<sup>2</sup> And in the United States alone, one young athlete dies every three days from an unrecognized cardiovascular disorder.<sup>3</sup>

Many SCA victims are without symptoms or prior cardiac conditions. The only effective treatment for SCA is a shock from a defibrillator, administered as quickly as possible. The sooner a victim is treated with a defibrillator, the better the victim's chance of survival.

According to American Heart Association, defibrillation within three minutes of SCA raises the chance of survival to more than 70 percent.<sup>4</sup>

**The critical factor? Having an AED within reach. Fast.**



### In an emergency, Powerheart AEDs are easy to use

When SCA strikes, every second is critical. We designed our Powerheart G5 and G3 AEDs to help minimize rescue times. When the rescuer applies the pads, the device analyzes the heart rhythm and delivers the shock when needed.

These AEDs are easy to use for almost anyone and require minimal training. For SCA victims, a Powerheart AED – and you – may save a life.

### Funding school AED programs

We've seen hundreds of elementary schools, high schools, colleges, and universities put life-saving AED programs in place – even during times of tight budgets. You can do it, too. Ask your Cardiac Science Certified AED Specialist about grants, fundraising, and other financing options.

### The law is on your side

Recognition and awareness that AEDs can save the lives of students, staff, and visitors in schools are growing. As a result, states like New York, Illinois, and Pennsylvania require schools to implement AED programs. There are federal and state Good Samaritan laws that protect citizens from liability when AEDs are used in good faith to save a life. Cardiac Science also includes an indemnification agreement, among the strongest in the industry, with each Powerheart AED.

1. A.S. Go et al. Heart Disease and Stroke Statistics – 2013 Update. *A report from the American Heart Association. Circulation*, 127 (2013): e6–e245.
2. Berger, S., Dhala, A., Freidberg, D.Z., 1999. Sudden cardiac death in infants, children and adolescents. *Pediatric Clinics of North America*, (46) 2: pp. 221–34.
3. J.A. Drezner, et al. Effectiveness of Emergency Response Planning for Sudden Cardiac Arrest in United States High Schools With Automated External Defibrillators. *American Heart Association Circulation*, 120 (2009): 525–518.
4. A.S. Go et al. American Heart Association Guidelines 2010 - Electrical Therapies. *American Heart Association Circulation*, 122 (2010): S710.



**SCA Survivor: Kylee Shea**

In 2011, the world met Kylee Shea, a 7th-grader who collapsed from an undiagnosed heart condition before gym class. In fact, during NBC's "Today" show, viewers were shown dramatic surveillance footage of Shea collapsing, and teachers responding to the unconscious girl seconds later. Working together, the teachers saved Kylee's life with a Powerheart AED.

For many, this segment was a revelation: Average people with little or no training could save lives with AEDs. For others, this story was a reminder of how a loved one or a friend suffered a sudden cardiac arrest and needed an AED to survive.

"If it wasn't for this (AED) and for what they did, our daughter still may be here today but not the Kylee we know today," said Kylee's dad, Mike Shea.

	Powerheart® G3 Plus	Powerheart® G5
<b>Ease of Use</b>	Clear voice prompts and helpful text prompts on a backlit display guide the user through the entire rescue operation.	Clear voice prompts and backlit text screen guide the user through the entire rescue. With a single touch, the G5 instantly switches to an alternate language without delaying the rescue.
<b>Ruggedness</b>	Backed by a 7-year warranty, this AED features an Intellisense® non-rechargeable battery that includes a 4-year performance guarantee.	Backed by an 8-year warranty, this AED features a high water and dust ingress protection rating (IP55), and an Intellisense non-rechargeable battery that includes a 4-year performance guarantee.
<b>Readiness</b>	Each day, patented Rescue Ready® technology automatically self-checks main AED components (battery, hardware, software, pad presence, and defibrillation pad functionality). The AED also completes a partial charge of the high-voltage electronics weekly, and a monthly full charge to ensure readiness.	
<b>Advanced Technology</b>	Patented RHYTHMx® technology distinguishes between shockable and non-shockable heart rhythms. Sophisticated STAR® biphasic technology calculates electrical impedance and tailors the shock to the patient. Energy is escalated to deliver therapy at an appropriate higher level should a patient require a second shock.	



# 5 Reasons to Choose a Powerheart® AED



1

## PATENTED RESCUE READY® TECHNOLOGY

Powerheart AEDs perform automatic daily, weekly, and monthly self-tests to monitor critical components including the internal circuitry, software, and medical-grade battery for readiness; the pre-connected defibrillation pads are also tested for both presence and functionality. If anything is amiss, the Rescue Ready indicator immediately changes from green to red and emits an audible distress tone to cue users that attention is required.

2

## EASY WITHOUT COMPROMISE

Extensive rescue and CPR prompts guide first-time rescuers through the stressful situation. Our innovative RescueCoach™ technology, backed by research,<sup>5</sup> guides first-time responders through the entire rescue process. And it delivers the confidence to perform a rescue. The fully automatic shock delivery feature eliminates user hesitation.<sup>6</sup>

3

## ADVANCED PATIENT CARE

Each Powerheart AED includes patented RHYTHMx® technology to assess the patient's heart rhythm. Sophisticated STAR® biphasic technology delivers a customized shock at an appropriate energy level.

4

## FLEXIBILITY AND DURABILITY

Powerheart AEDs are designed to be tough and have been deployed in the most challenging settings. The high-impact AED meets rugged military standards and a high ingress protection rating (IP55) against water and dust. The Powerheart G5 lets you choose from an array of prompt settings, shock protocols, and CPR settings to meet specific requirements.

5

## THE PEACE OF MIND IN WORKING WITH CARDIAC SCIENCE

For more than 20 years, Cardiac Science has developed patented technologies such as fully automatic AED operation, pre-connected pads, and many other innovations that shape how first responders use AEDs to save lives. Each Powerheart is supported by an experienced global staff of AED Certified Specialists and a team of select partners to provide expert deployment consultations and training. Finally, Powerheart AEDs are built to last with a multi-year device warranty program, the industry's strongest indemnification policy, and a 4-year full operational guarantee on genuine Intellisense® non-rechargeable medical-grade batteries.

5. Peer reviewed study by Benjamin S. Abella et. al. "Untrained Volunteers Perform High Quality CPR When Using an Automatic External Defibrillator with a CPR Voice Prompting Algorithm," *Circulation*. 2007; 116:11\_437.

6. Note: Fully automatic models are not available in every country.

## At the Heart of Saving Lives®

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