





LIFEPAK® CR Plus AED Versus Powerheart® AED AED Product Comparison

	Medtronic Physio-Control LIFEPAK CR Plus AED	Cardiac Science Powerheart AED
How Easy is the AED to Use?		
Rated "superior overall" in intuitiveness and ease of use by an independent team of usability experts	Yes ¹ 	No ¹ 
Available in a fully automatic model	Yes	No
Visual indication that electrodes are making proper contact	Yes	No
Patient data is lost if lid is accidentally closed	No	Yes, after 15 seconds ²
Patient data is lost if battery/CHARGE-PAK™ battery charger is removed	No	Yes, if not replaced in 60 seconds ³
Innovative data transfer via IrDA port	Yes	No
Weight	4.4 lbs	7.8 lbs

Is the AED Easy and Economical to Own?		
Battery (CHARGE-PAK battery charger) and electrode expiration dates match, minimizing maintenance time and inventory costs	Yes	No
Cost of training unit and number of electrodes	\$325 with carrying case and 5 sets electrodes	\$420 without carrying case and 1 set electrodes
Same AED for children can be used as an escalating, full-energy device for adults per FDA 510(k) clearance	Yes ⁴	No, limited to fixed 200J ⁴
Validated, Web-based refresher AED training with automatic tracking	Yes	No

How Advanced is the AED's Technology?		
Highest defibrillation success rate among four AEDs with biphasic waveform	Yes ⁵	No ⁵
AED advises a "No Shock" decision for SVT in accordance with AAMI Standard DF 39 and AHA AED Task Force recommendations	Yes ⁶	No, device designed to shock SVT ⁷
Electrodes designed to fit ALS defibrillators used by most EMS paramedic teams	Yes	No
Has motion detection to minimize possibility of incorrect shock/no shock decisions	Yes	No
ALS/EMS advanced defibrillator available for patient handoff	Yes	No

1 Human Factors International, Expert review of five commercially available AEDs for intuitiveness and ease of use. May, 2003

2 Powerheart AED Operating Instructions, pg. 59

3 Powerheart AED Operating Instructions, pg. 29

4 When using infant/child reduced energy electrodes

5 Walker, R.G., Melnick, S.B., Chapman, F.W., Walcott, G.P., Schmitt, G.P., Ideker, R.E. 2003. Comparison of six clinically used external defibrillators in swine. *Resuscitation*, Vol. 57: 1: 73-83

6 LIFEPAK CR Plus AED Operating Instructions, Appendix B

7 Powerheart AED Operating Instructions, pg. 17