



## LIFEPAK® 500 AED Versus Powerheart® AED AED Product Comparison

Medtronic Physio-Control  
LIFEPAK 500 AED

Cardiac Science  
Powerheart AED



### Is the AED Rugged and Field Proven?

More than 100,000 AEDs in use	Yes	No
Available with rechargeable batteries for frequent responders	Yes	No
Available in a version with dust/liquid protection to IP54, MIL-STD for salt fog and highly accelerated life tests for vibration and temperature stress	Yes <sup>1</sup>	No
On-site direct service available	Yes	No
Heated storage bag specifically designed for Medtronic Physio-Control	Yes	No
Battery technologies certified by multiple agencies for use in aircraft. Meets FAA TSO-C97, FAA TSO-C142, CAA SA01201 (Europe)	Yes	No

### How Advanced is the AED's Technology?

AED advises a "No Shock" decision for SVT in accordance with AAMI Standard DF 39 and AHA AED Task Force recommendations	Yes <sup>2</sup>	No, device designed to shock SVT <sup>3</sup>
Available with a choice of three battery technologies including SLA, LiSO <sub>2</sub> and LiMnO <sub>2</sub>	Yes	No
Electrodes design 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
AED has internal memory capacity for two events, eliminating concern of full or missing data cards	Yes	No
Highest defibrillation success rate among four AEDs with biphasic waveform	Yes <sup>4</sup>	No <sup>4</sup>

### Is the AED Easy and Economical to Own and Operate?

Cost of training unit	\$398 with carrying case	\$420 without carrying case
Same AED for children can be used as an escalating full-energy device for adults per FDA 510(k) clearance	Yes <sup>5</sup>	No, limited to fixed 200J <sup>5</sup>
Validated, Web-based refresher AED training with automatic tracking	Yes	No
RS232 port for direct data input to an inexpensive printer (Epson)	Yes	No

<sup>1</sup> LIFEPAK 500 DPS data sheet (MIN 3202913), from Medtronic Physio-Control

<sup>2</sup> LIFEPAK 500 Operating Instructions, Appendix A

<sup>3</sup> Powerheart AED Operating Instructions, page 17

<sup>4</sup> 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

<sup>5</sup> When using infant/child reduced energy electrodes