

AED FEATURES COMPARISON

| Manufacturer | Cardiac Science | Medtronic | Philips | Zoll |
|---|--|--|--|---|
| | Powerheart | | | |
| Product Model | AED G3 | LifePak CRPlus | HeartStart OnSite | AED Plus |
| FEATURES | | | | |
| Requires user initiated testing | No | Yes | Yes | Yes |
| Electrodes tested for presence | Yes | No | Yes | Yes |
| Electrodes tested for functionality | Yes | No | Yes | No |
| Visible battery capacity gauge | Yes | No | No | No |
| Status indicator | Visual and audible | Visual | Visual and audible | Visual and audible |
| Buttons to operate | 1 | 2 | 3 | 2 |
| Pre-connected electrodes | Yes | Yes | Yes | Yes |
| Non-polarized electrodes (interchangeable) | Yes | No | Unknown ³ | No |
| Text display | Yes | No | No | Yes |
| Additional electrode placement prompts | Yes | Yes | Yes | No |
| Enhanced CPR prompts | Yes | No | Yes | Yes |
| Biphasic Technology | | | | |
| Energy range | Variable Energy, Escalating, 105-360 J | Fixed Energy, Escalating, 200, 300, 360 J | Fixed Energy, Non-Escalating, 150 J | Fixed Energy, Escalating, 120, 150, 200 J |
| Energy protocol options | Yes | Yes | No | Yes |
| First shock efficacy ¹ | 100% | 100% | Unknown ² | 99% |
| Analysis algorithm | | | | |
| Programmable VF/VT rate, detection rate | Yes, 120-240 bpm | No, 120 bpm | Yes, 160-600 bpm depending on parameters | No, 150 bpm |
| Asystole threshold (mV) | 0.08 | 0.08 | 0.1 | 0.1 |
| Noise (artifact) detection during analysis | Yes | Yes | Yes | Yes |
| Non-committed shock | Yes | No | Yes | No |
| Monitor heart rhythm during CPR (option) | Yes | No | No | No |
| Optional SVT therapy | Yes | No | No | No |
| Synchronized shock | Yes | No | No | No |
| Pacemaker pulse detection | Yes | No | Yes | No |
| Added Features | | | | |
| Internal memory for ECG data | 60 minutes | 20 minutes | 15 minutes | 20 minutes |
| Compatible with manual defibrillators | Yes | Yes | Yes | Yes |
| Pediatric Capability | Yes | Yes | Yes | Yes |
| Pediatric electrodes | Yes | Yes | Yes | Yes |
| Warranty/MSRP | | | | |
| AED warranty | 7 years | 5 years for commercial and consumer and 1 year for EMS | 5 years | 5 years |
| Unconditional battery warranty (full operational replacement) | 4 years | 90 days | not offered | none if purchased through consumer, 1 year from factory |

1. As indicated in FDA approval submissions.

2. For the Philips product, publicly available data from the FDA approval process was for a 115J and 130J energy protocol waveform, which had an 86% first shock efficacy (Bardy GH, et al., Circulation, 1996;94:2507-2514). Philips claims the current energy protocol for the OnSite product is a 150J waveform. No known data exists in comparable electrophysiology laboratory clinical settings for this waveform.

3. Philips does not specify whether their electrodes are or are not polarized. Each pad indicates that it should be placed in a specific location on the torso (OnSite owners manual, REF: 011667-0005 page 14).