

Powerheart G3 Elite

Technical Specifications



Rescue Ready

The Powerheart® G3 Elite AED performs comprehensive self-testing to ensure it is Rescue Ready®. Studies have shown that approximately 46% of AED failures are due to pad, pad connector, or battery power problems.¹

CPR Support

In addition to early defibrillation, the AHA Guidelines emphasise the importance of high-quality CPR to increase SCA survival rates. The Powerheart G3 Elite uses simple CPR instructions and an easy-to-follow metronome.

User-Paced Rescue Prompts

RescueCoach® prompts guide users step by step through the rescue process. The AED recognises actions taken and ensures that the rescuer completes every critical task before moving on to the next.



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Powerheart G3 Elite Specifications

Defibrillator

Protocol: Semi-automatic and fully automatic configurations

Waveform: STAR® biphasic truncated exponential

Impedance: 25–180 Ω

Audible Alerts: Voice prompt and maintenance

Visible Indicators: Status indicator, battery capacity gauge, service indicator, pads indicator, text display

Defibrillator Charge Hold Time: 30 seconds; Powerheart G3 Elite automatic model: 3 seconds prior to automatic shock delivery

Energy Selection: Factory preprogrammed escalating energy. Adult-126 J to 351 j

Charge Time: Less than 10 seconds with new battery

Preshock Pause: 15 seconds (typical) with new battery

Pediatric Capability: Intellisense™ pediatric defibrillation electrodes

Display Format: Monochrome

Display Screen Viewable Area: 1.5 cm (H) x 7.5 cm (W)

Content: Text rescue/CPR prompts, CPR timer, elapsed time, device status/errors, data download prompts

Voice and Text Prompts: RescueCoach provides user-paced rescue prompts and CPR instruction. Prompts activate when the AED lid is opened and guide the operator through the rescue.

Port: Data cable

Data Recording and Storage: Internal memory holds up to 60 minutes of ECG data with event annotation; can store ECG data from multiple rescues.

Event Data: With Rescuelink® software, users may select specific events for download to PC or transfer.

Device

Size: (H x W x D) 8 cm x 27 cm x 31 cm; 3.3 in x 10.6 in x 12.4 in

Weight: 3.10 kg; 6.6 lb (with batteries and pads)

Power: Battery

Port: Data cable

Classifications/Standards: Classified by CSA International with respect to electric shock, fire and mechanical hazards only in accordance with CAN/CSA C22.2 No.60601-1:08, EN60601-1 and EN60601-2-4.

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Design Standards: Meets applicable requirements of EN 60601-1; EN 60601-2-4; IEC 60601-1; IEC 60601-2-4; IEC 60601-1-2; IEC 60601-2-4

Safety and Performance: IEC 60601-1; IEC 60601-1-2; IEC60601-2-4; RTCA DO-160G: 2010:Section 8

Emissions: CISPR 11-2016 RTCA DO-160G:2010, Section 20 & Section 21, Category M

Environmental

Transport (5 days): -30°C to 65°C (-22°F to 129°F)

Storage Temperature (2 years): 0° to 50°C, 32° to 122°F

Operating and Storage Temperature: 32°F to 122°F (0°C to 50°C)

Pressure: 57kPa (+15,000 ft) to 103 kPa (-500 ft)

Humidity (operation and standby): 5% to 95% (non-condensing)

Vibration (Random): IEC 60068-2-64:2008, Environmental testing – Part 2-64: Tests – Test Fh: Vibration, broadband random and guidance; RTCA DO-160G:2010, Section 8

Vibration (Sine): IEC 60068-2-6:2007; Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)

Shock: IEC 60068-2-27:2011; Environmental testing – Part 2-27: Tests Ea. and guidance

Altitude: -500 ft to 15,000 ft; -152m to 4573m

Pressure: 1030 to 570 millibars; 57 kPa (+15,000 ft) to 103 kPa (-500 ft)

Enclosure Protection: IEC 60529, IP24

Drop Test: 1.0 meter per 60068-2-31:2009

Intellisense® Lithium Battery

Battery Capacity: 290 shocks at 300 VE (typical); output voltage: 12 VDC (nominal), 18 hours (typical) of operating time

Type: Non-rechargeable lithium battery (model 9146-702)

Battery Standby Life (once installed): 4 years* with daily self-test

Battery Shelf Life: Store for up to 5 years from date of manufacture at 20°C to 30°C (77°F to 86°F), packaged or unpackaged

Weight: 0.454 kg

Size: (H x W x D): 6.5 in x 2.87 in x 1.77 in

Intellisense Defibrillation Pads

Shelf Life: 30 months from date of manufacture (24 months minimum)

Type: Disposable self-adhesive, non-polarised; minimum combined surface area 228 cm² (35.3 in²)

Cable Length: 1.3 m or 4.27 ft

Rescue Ready

Self-test: Automatic daily self-test on AED electrical circuitry, software, battery and defibrillation pads

Weekly: Daily self-tests plus partial energy charge

Monthly: Daily self-tests plus full-energy, high voltage tests

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269 Mill Road
Chelmsford, MA 01824, USA
978-421-9655
800-804-4356

For subsidiary addresses and fax numbers, as well as other global locations, please go to www.zoll.com/contacts.

*Comes with battery replacement performance guarantee.

¹DeLuca Jr LA, et al. *Ann Emerg Med.* 2012 Feb;59:2:103–111.