

Powerheart G5

Technical Specifications



Real-Time CPR Feedback

The Powerheart® G5 AED uses Intellisense™ CPR (ICPR) technology to monitor CPR chest compressions, providing rescuers with distinct corrective audible and visual prompts: “Press Slower”, “Press Faster”, “Press Softer”, and “Press Harder and Fully Release”.

Rescue Ready®

The Powerheart G5 AED performs comprehensive daily self-testing to ensure it's ready to rescue. Studies have shown that approximately 46% of AED failures are due to pad, pad connector, or battery power problems.¹ The Powerheart G5 AED self-tests detect and help prevent these issues.

User-Paced Rescue Prompts

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

Dual-Language Capabilities

With a touch of a button, CPR Instruction, ICPR corrections, and AED prompts can quickly switch from the primary language to a preprogrammed alternate language without delaying the rescue.



Intellisense CPR Feedback

Real-time, guideline-driven voice and text corrective prompts are delivered for CPR quality.

SHOCKS 0 00:55

PEEL SECOND PAD
FROM BLUE PLASTIC

RescueCoach

User-paced voice and text prompts guide rescuers through each critical step of the rescue, including CPR instruction.



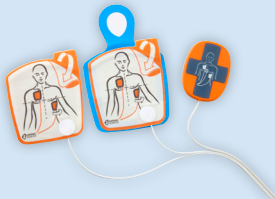
Dual Language

Change from primary to secondary language with the push of a button, without delaying or interrupting the rescue.



Rescue Ready

Daily self-tests are conducted on pads, battery, and internal circuitry to ensure your AED is always ready to rescue.



Intellisense Electrode Pads with CPR

Non-polarized pads can be placed in either location on the chest, while CPR pad is placed in the center of the chest to guide proper hand placement for CPR compressions.

ZOLL Medical Corporation
Worldwide Headquarters
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.

Powerheart G5 Specifications

Defibrillator

Protocol: Semi-automatic and fully automatic configurations

Waveform: STAR® biphasic truncated exponential. Built-in automatic synchronization feature.

Defibrillator Charge Hold Time: 30 seconds; Powerheart G5 Automatic model: 3 seconds prior to automatic shock delivery

Energy Selection: Factory preprogrammed selection, escalating energy. (Adult: 95 J to 354 J)

Charge Time: Less than 10 seconds with new battery

Preshock Pause: 10 seconds or less following the CPR cycle for persistent VF; 15 seconds (typical) for all other rhythms with new battery.

Pacemaker Pulse: Detection and Rejection

Pediatric Capability: Therapy range (VE) 22 J to 82 J, pediatric prompts

Self-test: Automatic daily self-test: battery, pads, internal electronics, and buttons. Every 7 days: daily tests plus CPR feedback accelerometer, high voltage circuits. Monthly: daily/weekly self-tests and full-energy high voltage tests.

Compression Depth: Customizable range of 2.54 cm to 7.6 cm (1 in to 3 in)

Compression Rate: Customizable range of 70 cpm to 120 cpm

Patient Impedance Measurement Range: 25 ohms to 175 ohms

Display Format: Monochrome backlit LCD

Display Screen Size: 2.8 cm x 5.6 cm; 1.1 in x 2.2 in

Text Screen: Displays rescue prompts and critical rescue information. Intellisense CPR (ICPR) feedback provides corrective text prompts for both rate and depth.

Voice Prompts: RescueCoach prompts provide user-paced instruction.

Intellisense CPR feedback provides corrective voice prompts for both rate and depth.

Dual Language: Primary language is English, with two secondary language options: Latin American Spanish and Canadian French

Data Recording and Storage: Records up to 90 minutes and multiple events. Includes ECG data, device prompts, device charge/analysis, and CPR graph

Data Recovery: Uploaded USB memory stick or direct-connect cable

Device

Size: (H x W x D) 9 cm x 23 cm x 30 cm; 3.4 in x 9.0 in x 11.8 in

Weight: 2.6 kg; 5.7 lb (with battery)

Power: Battery

Port: USB 2.0

Device Classification: Class III and internally powered per EN60601-1

Design Standards: Meets applicable requirements of EN 60601-1; EN 60601-2-4; IEC 60601-1; IEC 60601-2-4; IEC 60601-1-2; EN 1789

Safety and Performance: IEC 60601-1; IEC 60601-1-2; IEC60601-2-4; RTCA DO-160G: 2010:Section 5, Category C; Section 4, Category A4, EN 1789

Environmental

Operating Temperature: 0° to 50°C, 32° to 122°F

Humidity: 10% to 95% relative humidity, non-condensing

Vibration (Random): MIL-STD-810G, Method 514.5, Procedure 1, Category 24; RTCA DO-160G, Section 8, Category S, Zone 2 (curve B) and Category U, Zone 2 (curves F and F1)

Vibration (Sine): MIL-STD-810G, Method 514.5, Procedure 1, Category 24, Helicopter Minimum Integrity

Shock: MIL-STD-810G 516.5, Procedure 1

Altitude: -382 m to 4,594 m; -1,253 ft to 15,073 ft

Pressure CSA evaluated: 700 hPa to 1060 hPa. Minimum: 570 hPa/ Maximum: 1060 hPa

Particle and Water Ingress: IP55

Drop Test: 1.22 m; 4 ft

Warranty: 6 years (+2 with registration)

Intellisense® Lithium Battery

Battery Capacity: 420 defibrillator discharges at maximum energy (354 joules) or 16 hours of continuous monitoring time (with 2-minute CPR periods)

Type: Intellisense lithium battery, non-rechargeable

Battery Standby Life (once installed): 4 years* with daily self-test. End of life indicated by a low-battery warning (audible tone) and Rescue Ready status indicator (typical remaining shocks: 9).

Battery Shelf Life: Store for up to 5 years from date of manufacture at 23°C (77°F) prior to installing in Powerheart G5 to maintain battery life.

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

Humidity: 10% to 95% (non-condensing)

Weight: 1 lb

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

Lithium Content: 9.2 g (approximate)

Nominal Voltage: 12 volts

Intellisense™ Electrode Pads

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

Type: Disposable, non-polarized; can be placed in either position on chest

Cable Length: 130 cm; 51.5 in

*Comes with battery replacement performance guarantee.

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