

# ZOLL AED 3™ BLS

## Technical Specifications



### Enhanced Real CPR Help

The ZOLL AED 3™ BLS provides enhanced Real CPR Help®, which measures the actual depth and rate of each compression and displays it numerically on the CPR Dashboard™ feature. The CPR Dashboard also shows elapsed time, CPR cycle countdown, shocks delivered, and ECG. The Real CPR Help integrated, real-time CPR feedback tells and shows rescuers when they are administering high-quality CPR.

### Integrated Pediatric Rescue

Pediatric rescue is made easier with ZOLL's Pedi-padz® II Pediatric Electrodes and a child mode setting. Voice and text prompts and an illuminated child mode indicator notify the responder that the ZOLL AED 3 BLS is configured for a pediatric rescue.

ZOLL's pediatric specific algorithm analyzes and delivers child-appropriate therapy without the use of an attenuator.

### Rugged design – Built to Handle Extreme Environments

The ZOLL AED 3 BLS is designed to withstand the extreme environments in which professional rescuers work. With an IP (ingress protection) rating of 55 and a 1-meter drop-test rating, the ZOLL AED 3 BLS is highly impervious to moisture, dust, and rough handling.

### WiFi and USB Connectivity

The 2015 AHA Guidelines state that a “continuous quality improvement approach to CPR can dramatically improve CPR quality and optimize outcomes...CPR data collection, implementation of best practices, and continuous feedback on performance have been shown to be effective.”<sup>1</sup> Using RescueNet® CaseReview, detailed rescue performance data can be exported quickly and easily via USB or transferred directly over WiFi. Data on CPR rate, depth, release velocity, and compression fraction can easily be evaluated and used to improve future responder performance. ZOLL's connectivity also enables fast and easy distribution of event and ECG data to medical personnel.

<sup>1</sup>Kleinman ME, et al. *Circulation*. 2015; 132(suppl 2):S423.



The ZOLL CPR Dashboard provides real-time numerical feedback on CPR depth, rate, and cycle time.



Child mode, when activated, invokes the pediatric heart analysis algorithm and reduces energy delivered.



Wi-Fi and USB connectivity enable quick and easy access to event data.



Compatible with ZOLL's current AED electrodes: CPR stat-padz, CPR-D padz, Stat Padz II, and Pedi-padz II

## ZOLL AED 3 BLS Specifications

### Defibrillator

**Protocol:** Semi-automatic

**Waveform:** ZOLL Rectilinear Biphasic™

**Defibrillator Charge Hold Time:** 30 seconds

**Energy Selection:** Factory preprogrammed selection (Adult: 120 J, 150 J, 200 J; Child: 50 J, 70 J, 85 J). User configurable.

**Patient Safety:** All patient connections are electrically isolated.

**Charge Time:** Less than 10 seconds with new battery

**Pre-shock Pause:** 8 seconds with new battery

**Electrodes:** ZOLL CPR Uni-padz

**Self-test:** User-configurable automatic self-test every day or every 7 days. Default: Every 7 days. Monthly full-energy test (200 J).

**Automatic Self-test Checks:** Battery capacity, status, and expiration; electrode connection and expiration; ECG and charge/discharge circuits; microprocessor hardware and software; CPR circuitry and pads sensor; audio circuitry

**CPR Metronome Rate:** Constant 105 (+/- 2) CPM

**Depth Measurement:** 1.9 cm to 10.2 cm; 0.75 in to 4 in

**Defibrillation Advisory:** Evaluates electrode connection and patient ECG to determine if defibrillation is required

**Shockable Rhythms:** Ventricular fibrillation with average amplitude >100 microvolts and wide complex ventricular tachycardia with rates greater than 150 BPM for adults, 200 BPM for pediatrics. For ECG analysis algorithm sensitivity and specificity, refer to the ZOLL AED 3 Administrator's Guide.

**Patient Impedance Measurement Range:** 10 ohms to 300 ohms

**Defibrillator:** Protected ECG circuitry

**Display Format:** High-resolution LCD with capacitive touch panel

**Display Screen Size:** 5.39 cm x 9.5 cm; 2.12 in x 3.74 in

**Display Sweep Speed:** 25 mm/sec

**Display Viewing Speed:** 3.84 seconds

### Data Recording and Storage:

User-configurable for 1 or 2 clinical events for total of 120 minutes. Includes ECG, impedance measurements, device prompts, and CPR data. With voice recording enabled, same data with synchronous audio added for total of 60 minutes.

**Data Recovery:** Controlled by touchscreen, uploaded to USB memory stick, or RescueNet CaseReview, over a Wi-Fi network

**Internal Clock Synchronization:** Coordinated Universal Time (UTC) synchronization occurs when communicating with the ZOLL Online server.

### Device

**Size:** (H x W x D) 12.7 cm x 23.6 cm x 24.7 cm; 5.0 in x 9.3 in x 9.7 in

**Weight:** 2.5 kg; 5.5 lbs

**Power:** Lithium manganese dioxide battery pack

**Wireless:** 802.11 a/b/g/n

**Security Protocols:** WPA1, WPA 2, WPA Personal, WPA Enterprise

**Port:** USB 2.0

**Audio Recording:** User-configurable on/off (default=off)

**Device Classification:** Class III and internally powered per EN 60601-1

**Design Standards:** Meets applicable requirements of EN 60601-1, EN 60601-1-11, IEC 60601-2-4

### Environmental

**Operating Temperature:** 0° to 50°C; 32° to 122°F

**Storage Temperature:** -30° to 70°C; -22° to 158°F

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

**Vibration:** IEC 60068-2-64, Random, Spectrum A.4, Table A.8, Cat. 3b; RTCA/DO-160G, Fixed Wing Aircraft, Section 8.6, Test Cat. H, Aircraft Zone 1 and 2; EN1789, Sweep per EN 60068-2-6 Test Fc

**Shock:** IEC 60068-2-27; 100G

**Altitude:** -381 m to 4,573 m; -1,250 to 15,000 ft

**Particle and Water Ingress:** IP55

**Drop Test:** 1 meter; 3.28 ft

### Battery

**Battery Capacity:** Typical new battery running at an ambient temperature of +20° C to +25° C (68° F to 77° F) can provide 140 defibrillator discharges at maximum energy (200 joules), or 6 hours of continuous monitoring (with 2-minute CPR periods). **Note:** CPR periods shorter than 2 minutes can decrease the operating time that can be obtained from a new battery.

**Type:** Disposable, sealed lithium manganese dioxide

**Battery Standby Life (once installed):** 5 years with weekly self-test. Battery end of life indicated by blank status window (typical remaining shocks: 9).

**Battery Shelf Life:** Store for up to 2 years at 23°C (77°F) prior to installing in ZOLL AED 3 BLS to maintain battery life detailed above.

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

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

**Weight:** 317.5 grams; 0.7 lbs

**Size:** (H x W x D) 27.75 mm x 133 mm x 88 mm; 1.0 in x 5.16 in x 3.5 in

**Nominal Voltage:** 12 volts

### CPR Stat-Padz

**Shelf Life:** 2 years

**Conductive Gel:** Polymer Hydrogel

**Conductive Element:** Tin

**Packaging:** Multilayer foil laminate pouch

**Impedance Class:** Low

**Cable Length:** 110 (+/- 3.8) cm; 56 (+/- 1.5) in

**Design Standards:** Meets requirements of IEC 60601-2-4

### ZOLL AED 3 BLS Carry Bag

**Size:** (H x W x D) 29.2 cm x 27.4 cm x 17.8 cm; 11.5 in x 10.8 in x 7.0 in

**Weight:** 3.4 kg; 7.5 lbs (ZOLL AED 3 BLS with battery installed and CPR Uni-padz preconnected in carry bag)

**Holds:** ZOLL AED 3 BLS with battery inserted and back-up set of CPR Uni-padz

Specifications subject to change without notice.  
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