

# HEART Pocket Pro

## Semi-Automatic

### Product Data Sheet



#### Compact and lightweight

Compared to traditional AEDs, the **St John Ambulance HEART Pocket Pro** shrink both in weight, boasting a 2/3 reduction, and in volume, with a 3/4 reduction, all while delivering the same therapeutic efficacy.

Weighing less than 0.7kg, the compact AEDs are ideally suited for deployment by trained personnel and can be conveniently stored in home first-aid kits, ensuring accessibility during critical situations.

#### Rugged durability and reliability in demanding conditions

The device boasts an impressive IP65 rating for dust and water resistance, making it suitable for operation even in the harshest environments. Its reinforced design enables it to excel in various extreme conditions, displaying remarkable tolerance to a range of environmental challenges.

Furthermore, it has undergone a rigorous 1.5 metres drop test, ensuring its capability to withstand emergency situations in harsh environments with ease.

#### Product model

#### HEART Pocket Pro

|                                     |                 |
|-------------------------------------|-----------------|
| Size (H x W x L) cms:               | 5.3 x 8.6 x 15  |
| Weight (including batteries, pads): | Less than 0.7kg |
| Child Mode:                         | N/A             |
| Continuously VF/VT Detection Mode:  | Yes             |
| Dust & Water Resistance Level:      | IP65            |
| Drop Impact Resistance:             | 1.5m            |

#### Product highlights

- Patented Tiny Combine™ technology:
  1. Portable and lightweight – 5.3(H) x 8.6(W) x 15cm(L) <0.7kg
  2. IP65 protects against dust and wet environments
  3. Drop tested to 1.5 metres
- One-touch power on, and one-touch defibrillation functions
- Smart Voice Guidance
- Optional rechargeable battery
- Smart pads life of 5 years which allow for biphasic shock
- CPR features with metronome
- Time to shock less than 8 seconds
- Algorithm capable of detecting implants such as pacemaker and internal defibrillator
- Continuous VF/VT detection mode, providing real-time protection during patient transport
- Pacemaker pulse detection
- 24 hours of ECG data
- Daily self-testing ensures device is ready for use
- Support mobile communication 4G and GPS positioning
- Pull-strap opening from pads back cover, accessible in 1 second
- MDR Approved

# HEART Pocket Pro AED

## Semi-Automatic

### Specifications

#### Defibrillator

**Waveform:** Biphasic Truncated Exponential (BTE) Waveform

**Impedance Range:** 20 - 180Ω

**Energy Level:** Adults, energy released at 50Ω impedance: 150J

**CPR Coaching:** CPR instructions are available, with metronome and hand placement instructions

**CPR Protocol:** Comply with ERC/AHA 2020 guideline.

**Charge/Discharge Time (Rechargeable Battery):**

The time from the prompt of "Shock Advised" to when the shock can be performed: Typically less than 8 seconds

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#### Arrhythmia Analysis

**Accuracy:** Comply with IEC60601-2-4 requirements

**Analysis Time:** Typically 8 seconds

#### Controls

**Shock Control:** Semi-automatic (press the shock button to deliver energy)

**Function Button:** Users can adjust the volume, switch between rescue mode and VF/VT detection mode

**Certification:** ISO13485, NMPA

**Safety Standard:**

- IEC 60601-1:2005+A1:2012
- IEC 60601-2-4:2010+Amd1:2018
- IEC 60601-1-2:2014
- IEC 60601-1-12:2014

#### User Interface

**User Guidance:** Voice and light guidance

**Device Status Indicator:** Visual indicators help to monitor the status of the main device, electrodes, and battery. Flashing green light indicates the device is normal. Flashing red light indicates the device requires maintenance.

#### Environmental Parameters

**Operating/Storage Temperature:** -15°C ~ +50°C

**One Hour Operating Temperature Limit (extreme cold):** -20°C

**Short-term Storage/Transport Temperature:** -40°C ~ +70°C, within one week, with battery and pads uninstalled.

**Atmospheric Pressure:** 59,4KPa ~ 106KPa

**Relative Humidity:** 5% ~ 95% (no condensation)

**Ingress Protection:** IP65

**Altitude:** 4500M

#### Physical Characteristics

**Height:** 5.3 cm

**Width:** 8.6 cm

**Depth:** 15 cm

**Weight:** 0.7kg (including battery and pads)

**Tolerable Impact/Fall Damage:** Can withstand free fall damage from a height of 1.5M onto hard surfaces

#### Accessories (Disposable Battery)

**Type:** Lithium manganese dioxide (LiMnO<sub>2</sub> Battery), 12V/1500mAh (Standard)

**Capacity:** At 20°±42°C, the new battery can discharge 130 times at 150J

**Operation Life (standby):** 3 years (typical)

**Low Battery Status:** A battery that indicates low battery can still be used 30 times at 150J

#### Accessories (Rechargeable Battery)

**Type:** Lithium Ion (Li-ion Battery), 7V/3450mAh (Optional)

**Capacity:** At 20°±42°C, the new battery can discharge 250 times at 150J

**Operation Life (standby):** 3 months before recharge

**Recharge Times:** 3 hours and 40 minutes or less

**Low Battery Status:** A battery that indicates low battery can still be used 30 times at 150J

#### Accessories (Pads)

**Pads:** Suitable for both adult and child

**Operation Life (standby):** 5 years

**Cable Length:** ≥ 1.0M

**Storage Space:** Pads can be stored in the pads storage box at the back of the device

#### Communications

**Communication:** Bluetooth/GPS positioning

#### Overall Device

**Date of Production:** See label on the back of the device

**Service Life:** 10 years