



The **Philips HeartStart XL+** is a lightweight, portable, defibrillator and monitor. It provides four clinical modes of operation: Monitor, Manual Defibrillation, AED, and Pacer (Optional). The HeartStart XL+ is powered by a rechargeable lithium-ion battery. An AC power supply may serve as a secondary power source and for continual battery charging. The XL+ performs Automated Tests on a regular basis, and stores critical event and trend data in its internal memory.

Features

- Monitor Mode can monitor up to three ECG waveforms at a time, acquired through a 3 or 5-lead ECG set or multifunctional electrode pads. Optional monitoring of SpO₂, and EtCO₂, and NBP are also available.
- Manual Defibrillation Mode offers simple, 3-step defibrillation. Analyzing the patients ECG and if appropriate, select and energy setting.
- AED Mode analyzes the patients ECG and determines whether a shock is advised.
- Pace Mode offers non-invasive transcutaneous pacing therapy.



Specifications

Dimensions

Height: 9" (23 cm)
Width: 11.6" (29.6 cm)
Depth: 10.9" (27.9 cm)
Weight: 14.7 lbs (6.6 kg)

Defibrillator

Waveform: Biphasic Truncated Exponential. Waveform parameters adjusted as a function of patient impedance
Shock Delivery: Via multifunction electrode pads or paddles
Shock Series: Configurable Energy Escalation in a series
Charge Time: 3 to 17 seconds
Patient Impedance Range: 25 to 250 ohm

Display

Type: Extended Life Lithium, disposable, non-rechargeable
Operating Life: 5-years
Shelf Life: 5-years
Charge Time: 11 seconds to charge a fully discharged Survivalink AED to its maximum energy with a new battery.

Energy Levels

Size: 6.5" (16.5 cm) Diagonal viewing area
Type: Color TFT LCD
Resolution: 640 x 480 pixels (VGA) with 32 brightness levels per color
Sweep Speed: 20 mm/s nominal for ECG and SpO2
Wave Viewing Time: 5.2 seconds

Battery

Type: Rechargeable, Lithium-ion
Charge Time: > 3 hours
Life: ~3 Years

Printer

Continuous ECG Strip: The print button starts and stops the strip. The printer can be configured to be run real time or with a 10-second delay. The strip prints the primary ECG lead and a second wave with event annotations and measurements.
Auto Printing: The printer can be configured to automatically print on Mark Events, Charge, Shock, and Alarm.
Speed: 25 mm/s: With an accuracy of $\pm 5\%$
Amplitude Accuracy: 5% for offset voltages of ± 300 mV at 5Hz
Paper Size: 50mm wide x 30m long

