

# HeartSave Y | YA

Defibrillation	
Operating modes	HeartSave Y series: semi-automatic external defibrillator HeartSave YA series: fully-automatic external defibrillator
Impulse shape	Biphasic truncated exponential, auto-compensation according to patient impedance.
Optional output energy	For adults: 100 J, 150 J, 170 J, 200 J, 300 J, 360 J For children: 10 J, 15 J, 20 J, 30 J, 50 J, 70 J, 100 J
Default Shock series	Default adult energy sequence: Level 1: 200 J, Level 2: 300 J, Level 3: 360 J Default children energy sequence: Level 1: 50 J, Level 2: 70 J, Level 3: 100 J Shocks: Level 1, level 2, and level 3 can be configured. The energy configuration of the latter level must be greater than or equal to the energy of the previous level. Meeting ERC guidelines 2021 and AHA guidelines 2020 by default.
Charge time	Parameter for the HeartSave Y   YA for charging Charge time: the first shock: From open device cover to charge 200 J done: no more than 7 s From open device cover to charge 360 J done: no more than 14 s From AED analysis to charge 200 J done: no more than 5 s From AED analysis to charge 360 J done: no more than 12 s
Impedance measurement	25~300Ω
Databases for ECG evaluation	8 databases selected for ECG evaluation: VFDB / CUDB / MITDB / EDB / SVDB / AFDB / LTAADB / SDDB

ELECTRODES	
Model	Disposable defibrillation electrodes Disposable defibrillation electrodes with CPR feedback sensor
Lifetime with sealed bag	Up to 5 years.
Total area	105±10 cm²
Maximum number of defibrillation shocks	Up to 50 shocks
Adult / pediatric electrodes	Universal for adult and pediatric with one button switch

BATTERY	
Battery type	LiMnO2 ,12V, 4.2Ah, non-rechargeable
Standby life	5 years
Operating time	300 times 200 J discharge or 150 times 360 J discharge or operate 12 hours.
Battery insertion and removal	No tools needed to insert or remove the battery

ACCESSORY KIT	
The emergency kit is attached to the back of the device and contains the following accessories: 1x Scissor 1x Disposable razor 1x Pair of disposable gloves 1x Resuscitation mask	

DATA MANAGEMENT	
Internal memory	3 GB, storage of 10 hours of ECG wave, 2000 events, 2 hours of audio log, 3650 Self-test reports
Data export	USB port: USB 2.0
Language selection	Up to 4 languages (configurable according to client's needs)

SELF-TEST	
Automatic self-test	The HeartSave Y   YA carries out automatic self-tests when switch on the device, daily, monthly and every half year on different contents to ensure that it is always ready for operation.
Status display	<b>OK</b> indicates device ready to use; <b>✗</b> indicates possible error or during self-test

ENVIRONMENT SPECIFICATION	
Operating conditions	Recommended condition to save lifetime of the battery. -5°C to 55 °C (23 °F ~131 °F), 5 to 95 % rel. humidity, but without condensation 570 hPa to 1062 hPa
Transportation and storage conditions	Recommended condition to save lifetime of the battery. Short term: -30 °C~+70 °C (-22 °F~158 °F), 5 to 95 % rel. humidity, but without condensation 570 hPa to 1062 hPa Long term: +15 °C~+35 °C (59 °F ~95 °F), 5 to 95 % rel. humidity, but without condensation 570 hPa to 1062 hPa
Dust/water resistance	IP55
Adaptive volume control	The HeartSave Y   YA detects the ambient volume and automatically adjusts the volume of voice instructions.

PHYSICAL CHARACTERISTICS	
Dimensions (L x W x H)	29.6 cm x22.0 cm x9.7 cm (±0.1 cm)
Weight	Approx. 2.5 kg (with energy module, battery and pads) (±0.3 kg)
Drop test height	1.6 m
Main unit life	10 years

WARRANTY	
5 years warranty ex works	

The service life of the HeartSave Y | YA battery is normally up to 5 years, ex works provided that the following conditions are met: The battery is inserted into the device, the device is only ever in standby mode and is not used, just the regular self-tests recommended by Metrax are carried out, and the ambient temperature is consistently 20 degrees Celsius (± 5 degrees Celsius). Storing the device outdoors significantly reduces the service life of the battery. Since a wide variety of factors can influence the service life of the battery, Metrax accepts no liability for the service life of the battery.