Declaration of Conformity Relating to Directive 2011/65/EU

We ViVest Medical Technology Co., Ltd.

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Declare our compliance with the requirements of Directive 2011/65/EU and its subsequent amendment (EU)2015/863, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (hereinafter called, "RoHS-Directive").

The RoHS-Directive defines threshold values to avoid hazardous substances, in electrical and electronic equipment as follows (maximum concentration values tolerated by weight in homogeneous materials):

- Lead (0.1%)
- Mercury (0.1%)
- Cadmium (0.01%)
- Hexavalent chromium (0.1%)
- Polybrominated biphenyls (PBB) (0.1%)
- Polybrominated diphenyl ethers (PBDE) (0.1%)
- Bis(2-ethylhexyl)phthalate (DEHP) (0.1%)
- Butylbenzyl phthalate (BBP) (0.1%)
- Dibutyl phthalate (DBP) (0.1%)
- Dlisobutyl phthalate (DIBP) (0.1%)

We confirm that the products supplied by ViVest Medical Technology Co., Ltd that fall within the scope of the RoHS Directive meet the requirements of the RoHS Directive.

Product name: Automated External Defibrillator

Product model: PowerBeat X1 & PowerBeat X3

Any additional requirements would have to be specified in separate agreements. This declaration is based on our current knowledge and experience. We take neither liability nor warranty for factors beyond our knowledge and control.

Responsible for making this declaration is the:

 \square Manufacturer \square Authorised representative established within the EU

Person responsible for making this declaration

Print name/Title:

Lia Li Manager of Rgulatory Affairs

 $\frac{20\times4-06-18}{(\text{Date})}$

Signature)

X1 and X3 Product Technical Specifications

Safety Specification

Safety classification	Internally powered ME equipment	
Protection against electric	Defibrillation-Proof Type BF Applied Part.	
SHOCK		
Protection against		
harmful ingress of water	IP55	
or particulate matter		
Operational mode	Continuous operation	
ME equipment type	Portable	

Physical Specification

Size (including handle)	232±1mm(H)*209±1mm(W)*59±0.5mm(D)
Weight (including battery)	Approx. 1.5kg
Drop	Free to fall from a height of 1.5 m on a hard surface
Service life	10 years (test condition: ambient temperature of 25°C)

Environmental Specification

Operation temperature	-10 to 50°C (After entering environment of - 20°C from room temperature, it can work for at least 60 minutes)
Storage temperature	5 to 50°C
Short term storage/	
transportation	-40 to 70°C (<7 days)
temperature	
Relative humidity	5 to 95% no condensation
Air pressure	59.4 to 106kPa (-382 meters to +4283 meters)

Display Specification

Size	105.5mm (H) *65.3mm (W)
Resolution	800×480

Battery Specification

Battery type	LiMnO ₂ battery, 12V/3000mAh
The number of maximum energy discharge times	New battery can charge and discharge at least 200 times in rated energy of 150J at 20±2°C environment.
Battery standby life	5 years
Battery service life	5.5 years
Low battery condition	The device can deliver at least 30 shocks after the low battery indication is first displayed.

Charging time (In the environment of 20±2°C)			
Battery Status	From initial	From initial	From second
	power on to	rhythm	rhythm
	charge done	analysis to	analysis to charge
		charge done	done
New battery	≤17s	≤11s	≤7s
New battery after 6 times			
of maximum energy	≤17s	≤11s	≤7s
discharge			
New battery after 15			
times of maximum	≤17s	≤11s	≤7s
energy discharge			

Defibrillation Specification

	Truncated biphasic exponential waveform		
Waveform	P1		
Energy level	For adults: 150J; For children: 50J		
Output control	Manual		
Patient impedance range	20 to 180Ω		

Adult defibrillation:

Load	Phase 1	Phase 2	Time interval	Peak	Energy
impedance	pulse width	pulse width	between Phase	current P1	output (J)
(Ω)	D(ms)	E(ms)	1 and Phase 2	(A)	±15%
	±15%	±15%	F(ms)	±15%	
			±15%		
25	2.8	2.8	0.5	61.0	128
50	4.5	4.5	0.5	33.5	150
75	6.3	5	0.5	23.4	155
100	8	5.3	0.5	18.0	157
125	9.7	6.4	0.5	14.5	158
150	11.5	7.7	0.5	12.0	160
175	12	8	0.5	10.5	158

Child defibrillation:

Load	Phase 1	Phase 2	Time interval	Peak	Energy
impedanc	pulse width	pulse width	between Phase	current P1	output (J)
e (Ω)	D(ms)	E(ms)	1 and Phase 2	(A)	±15%
	±15%	±15%	F(ms)	±15%	
			±15%		
25	2.8	2.8	0.5	36.0	43.4
50	4.5	4.5	0.5	19.6	50.0
75	6.3	5.0	0.5	13.5	52.0
100	8.0	5.3	0.5	10.3	52.2
125	9.0	6.0	0.5	8.4	52.3
150	9.0	6.0	0.5	7.0	50.0
175	9.0	6.0	0.5	6.0	49.0

ECG Analysis System

Function	Automatically identifies the patient's heart rhythm and provides shock advice to the operator.
Pacemaker detection	Identify and erase the pacing signal before analyzing heart rhythm.
Artifacts detection	If an interfering signal that affects the accuracy of the heart rhythm analysis is detected, the device will delay performing the analysis and give a prompt.
Analysis decision time	≤7s
Analysis accuracy	Comply with IEC60601-2-4 requirements

Cardiac arrest threshold	<0.2mV
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Performance of heart rhythm recognition detector

Rhythms	Sample Size	Performance Goal of	Observed
		IEC60601-2-4	Performance
Shockable		Sensitivity	
VF	726	>90%	100%
VT	368	>75%	99.7%
Nonshocka	ble	Specificity	
	3350	>99%	99.7%

Classification of heart rhythm recognition detector

Rhythms	VF and VT	All other rhythms
Shockable	True positive	False positive
	99.7%	0.3%
Nonshockable	False negative	True negative
	0.3%	99.7%