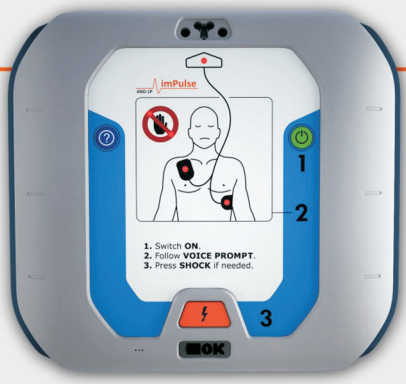
BIPHASIC DEFIBRILLATION

GURVICH PULSE
SINCE 1967



imPulse

imPulse PRO

imPulse
AED

Zelenograd innovation-technology
center of medical equipment

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Technical specification	imPulse	ImPulse PRO
Defibrillator		
Operation mode	semi-automatic only	semi-automatic, sync manual, async manual and ECG monitoring mode
Waveform	fixed duration biphasic quasi-sinusoidal (Gurvich pulse), with automatic impedance compensation	
Maximum energy	180J at 50Ω	
Energy sequence in semi-automatic mode (first – second – third and all subsequent shocks)		
with adult pads	130J – 180J – 180J	
with pediatric pads	50J – 70J – 70J	
Energy in manual mode	—	10J, 15J, 20J, 30J, 50J, 70J, 90J, 110J, 130J, 150J, 180J
Maximal energy in manual mode with pediatric pads	—	70J
Charge time	180J in less than 9 seconds with new nonrechargeable battery pack	180J in less than 8 seconds with new rechargeable battery pack
Safety classification	IEC 60601-1, internally powered equipment	
Electrical protection	input protection against defibrillator according to IEC 60601-1	
Automatic defibrillation protocol	ERC 2005	
Controls	On/Off, Help, Shock	On/Off, Help, Shock, Up, Down, OK, Energy, Charge
Display		
Screen	—	color liquid crystal display (LCD) with backlight 320 pixels × 240 pixels, 73 × 55 mm
Sweep speed	—	25 mm/sec
ECG size	—	10 mm/mV
Displayed information	guiding pictograms: connect cable, apply pads, do not touch patient, press shock button	operation mode, heart rate, ECG waveform, R-peak marks, text prompts, elapsed time, number of fibrillations detected, battery status, selected energy, current date and time
Status display	device is ready, device is faulty, battery is charged, battery is unloaded or is absent	
Battery	nonrechargeable battery pack	rechargeable battery pack
Physical characteristics		
Dimension	8.4 × 22.5 × 24.0 cm	
Weight	2.5 kg	
Environmental		
Operating temperature	0 to +50 °C	
Relative humidity	5 to 95% (non-condensing)	
Storage temperature	–30 to +60 °C	
Protection from dust/water	IP55 according to IEC 60529, with battery pack installed	
Options	—	3-led ECG 5-led ECG and SpO2
Accessories	—	charger with ac adapter for rechargeable battery pack