

AMOUL i6

Defibrillator/ Monitor

Technical Specifications

Physical Characteristics

Dimension	290x205x297mm (L/W/H)
Weight	5.8kg (incl. battery)

Display

Type	TFT Color LCD
Screen Size	7 inch
Resolution	800x480
Display Waveform	3 waveforms
Wave Viewing Time	Max. 16s (ECG)

Environmental Specifications

Temperature	Operating: 0°C to 50°C Storage: -30°C to 70°C
Humidity	Operating: 0% to 95%, non-condensing Storage: 0% to 95%, non-condensing
Ingress Protection Level	IP54

Safety Specifications

Free Fall	IEC 60068-2-31, (Height of fall: 1 m)
Transport	EN1789:2020; RTCA/DO-160G
Main Unit	IEC 60601-2-4
Patient Isolation (defibrillation proof)	Type CF: ECG, RESP, TEMP, SpO ₂ , NIBP Type BF: CO ₂
EMC	IEC 60601-1-2
ECG	IEC 60601-2-27
SpO ₂	ISO 80601-2-61
NIBP	IEC 80601-2-30

Powering Specifications

AC Power	Input voltage: 100 to 240V Input frequency: 50 Hz/60 Hz Input current: 2.0 to 1.0A
DC Power	Input voltage: 12 to 24 V
Battery	Type: Rechargeable lithium ion battery Capacity: 3500mAh Voltage: 14.8 V of nominal voltage Run Time: Defibrillation > 100 times at 360J Pacing > 2h, Monitoring > 3h



Battery	Charge Time: Less than 3 h to 100% with equipment off, less than 4.5 h to 100% with equipment on Capacity Indicator: 3-segment led indicator for fast battery capacity evaluation
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Manual Defibrillation Specifications

Waveform	Biphasic truncated exponential (BTE) waveform, with automatic impedance compensation
Operating Mode	Asynchronous/Synchronous
Defibrillation Pathway	External/Internal
External Defibrillation Paddle	With charge button, discharge button, energy selection button, charge done indicator and impedance/connection quality indicator
HR Analysis Time	< 6s
Output Energy	External: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 50, 70, 100, 150, 170, 200, 300, 360J Internal: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 30, 50J
Patient Impedance	External: 25 to 200 Ω Internal: 15 to 200 Ω
Charge Time	Charge to 200J less than 5 seconds, to 360J less than 8 seconds
ECG Recovery Time	< 5s

AED Specifications

Output Energy	Adult: 100, 150, 170, 200, 300, 360J, configurable Pediatrics: 10, 15, 20, 30, 50, 70, 100J, configurable
AED Shock Series	1, 2, 3, configurable
CPR Protocol	30:2, 15:2, continuous

Noninvasive Pacing Specifications

Waveform	Monophasic square wave pulse
Pacing Mode	On-demand, fixed
Pulse Width	20ms±5%

Pacing Rate	40 to 170 ppm, Accuracy: $\pm 1.5\%$
Pacing Output	0 to 200 mA, Accuracy: $\pm 5\%$ or $\pm 5\text{mA}$ (whichever is greater)
4:1	Pacing rate reduced by 1/4 of the original value when this function is activated

ECG Specifications

Lead Type	3/5 leads ECG
Lead Selection	3 leads ECG: I, II, III 5 leads ECG: I, II, III, aVR, aVL, aVF, V
CMRR	Therapy mode: $> 105\text{ dB}$ Monitoring mode: $> 105\text{ dB}$ Extended mode (only available in monitoring mode): $> 90\text{dB}$
Arrhythmia Analysis	20 types
ECG Sensitivity	2.5mm/mV ($\times 0.25$), 5mm/mV ($\times 0.5$), 10mm/mV ($\times 1$), 20mm/mV ($\times 2$), 40mm/mV ($\times 4$), with the error less than $\pm 5\%$
Sweeping Speed	50 mm/s, 25 mm/s, 12.5 mm/s, 6.25 mm/s. Error no more than $\pm 10\%$
Heart Rate (HR) Range	Pediatrics/Neonate: 15 to 350 bpm Adult: 15 to 300 bpm
HR Measurement Accuracy	$\pm 1\text{ bpm}$
Pacemaker Detection	Available

SpO2 Specifications

SpO2 Range	0% to 100%
SpO2 Resolution	1%
SpO2 Accuracy	When 70% to 100%: $\pm 2\%$ (adult/pediatric), $\pm 3\%$ (neonate)
PR Range	30 to 240 bpm
PR Resolution	1 bpm
PR Accuracy	$\pm 3\text{ bpm}$

RESP Specifications

Method	Trans-thoracic impedance
Range	0 to 120 rpm
Resolution	1 rpm
Accuracy	When 7 rpm - 120 rpm: $\pm 2\text{ rpm}$ or $\pm 2\%$, whichever is greater

NIBP Specifications

Measurement Mode	Manual measurement, automatic interval measurement, continuous measurement
Static Pressure Measurement Range	0 to 40.0 kPa (0 to 300 mmHg)
Resolution	0.1 kPa (1 mmHg)
Accuracy	$\pm 0.4\text{ kPa}$ ($\pm 3\text{ mmHg}$)
Systolic Pressure Range	Adult: 5.3 to 36.0 kPa (40 to 270mmHg) Pediatrics: 5.3 to 26.7 kPa (40 to 200mmHg) Neonate: 5.3 to 18.0 kPa (40 to 135mmHg)

Mean Pressure Range	Adult: 2.7 to 30.7 kPa (20 to 230mmHg) Pediatrics: 2.7 to 22.0 kPa (20 to 165mmHg) Neonate: 2.7 to 14.7 kPa (20 to 110mmHg)
Diastolic Pressure Range	Adult: 1.3 to 28.0 kPa (10 to 210mmHg) Pediatrics: 1.3 to 20.0 kPa (10 to 150mmHg) Neonate: 1.3 to 13.3 kPa (10 to 100mmHg)
Over-pressure Protection	Adult: $297 \pm 3\text{ mmHg}$ Pediatrics: 1.3 to 20.0 kPa (10 to 150mmHg) Neonate: 1.3 to 13.3 kPa (10 to 100mmHg)

TEMP Specifications

Range	0 to 50 °C (32 to 122 °F)
Resolution	0.1 °C
Accuracy	$\pm 0.1\text{ °C}$ ($\pm 0.2\text{ °F}$)

EtCO2 Specifications

Type	Mainstream
Range	0 to 99 mmHg
Resolution	0.1mmHg
Accuracy	When 0 to 40mmHg: $\pm 2\text{ mmHg}$ When 41 to 76mmHg: $\pm 5\%$ When 77 to 99mmHg: $\pm 10\%$

Recorder Specifications

Method	High-resolution thermal dot array
Waveform	3 waveforms
Speed	12.5mm/s, 25mm/s, 50mm/s, with error $\pm 5\%$
Paper Width	50 mm
Reports	Real time waveforms, event summary, monitoring parameters review, user test
Auto Recording	Recorder can be configured to record marked events, charge, shock, alarm, auto test

Storage Specifications

Patient Profiles	Max. 200
Events	≥ 1200
Self-test Records	Max. 2000
Waveform Storage	$\geq 240\text{ h}$
Trends	Within 7 days (168h)
Voice Recording	$\geq 180\text{ min}$
Data Export	USB, WIFI

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