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|------------------------|---------------------------------------------------------------------------------------------------------|
| Zero adjustment range: | ±200 mmHg |
| Resolution: | 1 mmHg |
| Sensitivity: | 5 µV/V/mmHg |
| Measurement range: | -50 mmHg to 360 mmHg |
| CPR Compression | |
| Weight: | Approximately 180 g (without battery) |
| Thickness: | 17.5 to 19 mm |
| Compression depth: | Measurement range: 0 to 8 cm Accuracy: ±5 mm or 10%, whichever is greater |
| Compression rate: | Measurement range: 40 to 160 cpm (compressions per minute) Accuracy: ±2 cpm (compression per minute) |
| Interruption time: | 0 to 300 s |

BeneHeart D6

Defibrillator / Monitor



Technical Specifications

Physical

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|-------------|------------------------------------------------------------------------------------------------------------------------------|
| Dimensions: | Without external paddles: 295mm (w) × 218 mm (d) × 279 mm (h) With external paddles: 295 mm (w) × 218 mm (d) × 323 mm (h) |
|-------------|------------------------------------------------------------------------------------------------------------------------------|

Weight

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|-------------------------|---------|
| Main unit: | 5.5 kg |
| Battery package (each): | 0.57 kg |
| External paddle set: | 0.86 kg |

Environmental and Physical Requirements

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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Resistance: | IPX4 (without external power) |
| Solids Resistance: | IP4X |
| Temperature: | Operating: 0 to 45 °C (Microstream CO ₂ : 0 to 40 °C; Sidestream CO ₂ : 5 to 35 °C) (at least 60 minutes of working time when the temperature reduces from room temperature to - 20 °C) |
| Humidity: | Operating / Storage: 10 to 95%.non-condensation |
| Altitude: | Operating / Storage: -381m to +4575 m |
| Shock and Vibration: | Comply the requirements of 21.102, ISO9919 (Shock and vibration for transport) |
| Bump: | Comply the requirements of 6.3.4.2, EN1789 (Medical devices for use in roadambulances) |
| Free fall: | Comply the requirements of 6.3.4.3, EN1789 (Height of fall: 0.75 m) |
| EMC: | Comply IEC60601-1-2 |
| Safety: | Comply EN/IEC 60601-1 |

Display

| | |
|--------------------|-----------------|
| Type: | TFT Color LCD |
| Dimensions: | 8.4 inch |
| Resolution: | 800×600 pixels |
| Display Waveforms: | Max. 4 channels |
| Wave Viewing Time: | Max. 16 s (ECG) |

Power

AC Power

| | |
|---------------|----------------------|
| Line voltage: | 100 to 240 V~ (±10%) |
| Current: | 1.8 to 0.8 A |
| Frequency: | 50/60 Hz (±3 Hz) |

DC Power (through DC-AC Inverter)

| | |
|--------------------|--------|
| Input voltage: | 12 VDC |
| Power Consumption: | 190 W |

Battery

| | |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Type: | 15.1V, 5600mAh, rechargeable lithium ion battery pack |
| Number: | Max. 2 |
| Charge time: | Less than 3 hours to 90% and less than 4 hours to 100% with equipment power off |
| Capacity Indicator: | 5-segment led indicator for fast battery capacity evaluation |
| Capacity (Two new, fully charged battery): | Monitoring Mode: 12 hours, Without less than 3 hours to 90% and less than 4 hours to 100% with equipment power off |

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P/N:ENG-BeneHeart D6 datasheet-210285x4P-20170802

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| | Defib Mode: 400 times, 360J discharge at intervals of 1minute without recording |
| | Pacing Mode: 9 hours, 50 Ohm load impedance, Pacing rate: 80bpm, Pacing output: 60mA |
| Recorder | |
| Method: | High-resolution thermal dot array |
| Waveforms: | Max. 4 channels |
| Speed: | 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s |
| Paper width: | 50 mm, 80mm |
| Reports: | The following can be recorded: Real-time waveforms, frozen waveforms, tabular trends, 12-lead, user test, auto test, configuration |
| Auto Recording: | Charge events, shock events, marked events, auto test report, parameter alarms, ARR alarms, if configured on |
| Data Storage | |
| Patient profiles: | Max. 100 patients |
| Events: | Up to 1000 events for one patient |
| Waveform Storage: | Up to 24 hours of consecutive ECG waveform |
| Tabular Trends: | Max. 72 h of all measured parameters; resolution:1 min |
| Voice recording: | Max. 180 min in total; max. 60 min for each patient |
| Data Export: | Data can be exported to PC through USB flash memory |
| Defibrillator | |
| Waveform: | Biphasic truncated exponential waveform , with impedance compensation |
| Energy accuracy: | ±2 J or 15% of setting, whichever is greater, into 50 Ohm |
| Power on time: | Less than 2 seconds with a new, fully charged battery |
| Charge Time: | Less than 3 seconds to 200 Joules with a new, fully charged battery Less than 7 seconds to 360 Joules with a new, fully charged battery |
| ECG recovery time: | Less than 2.5 seconds |
| Shock Delivery: | Via multifunction defib electrode pads, or paddles |
| Patient Impedance Range: | 25 to 300 Ohm (External defibrillation) |
| Manual Mode | |
| Output Energy: | 1,2,3,4,5,6,7,8,9,10,15,20,30,50,70,100,150,170,200,300,360 J |
| Synchronous Cardioversion: | Energy transfer begins within 60ms of the QRS peak Energy transfer begins within 25ms of the External Sync Pulse |
| AED Mode | |
| Output Energy: | User configurable |
| AED Shock Series: | Energy level: 100 to 360 J, configurable Shocks series: 1, 2, 3, configurable Default configuration meets 2015 AHA Guidelines CPRmode with 1-channel ECG monitoring |
| Sensitivity and Specificity: | Meets AAMI DF-80 |
| Noninvasive Pacing | |
| Waveform: | Monophasic square wave pulse |
| Pulse Width: | 20 ms or 40 ms, ±5% |
| Refractory period: | 200 to 300 ms, ±3% (function of rate) |
| Pacing Mode: | Demand or fixed |
| Pacing rate: | 30 ppm to 210 ppm, ±1.5% |
| Pacing output: | 0 mA to 200 mA, ±5% or 5mA, whichever is greater |
| 4:1 pacing: | Pacing pulse frequency reduced by factor of 4 when activated |
| ECG Monitoring | |
| Lead type: | 3 leads ECG, 5 leads ECG ,12 leads ECG |
| Lead Selection: | 3-lead: I, II, III 5-lead: I, II, III, aVR, aVL, aVF, V 12-lead: I, II, III, aVR, aVL, aVF, V1 to V6 |
| Heart Rate Display: | Adult: 15 to 300 bpm |

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|-------------------------------------------|---------------------------------------------------------------------------------|
| | Pediatric: 15 to 350 bpm |
| | Neonate: 15 to 350 bpm |
| Resolution: | 1 bpm |
| Arrhythmia : | Yes |
| Alarms: | Yes |
| ECG size: | 2.5 mm/mV(×0.25), 5 mm/mV(×0.5), 10 mm/mV(×1), 20 mm/mV(×2), 40 mm/mV(×4), Auto |
| Sweep speed: | 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s |
| Patient Isolation (defibrillation proof): | |
| | Type CF: ECG, RESP, SpO ₂ , NIBP, IBP, TEMP |
| | Type BF: CO ₂ |
| Respiration | |
| Method: | Trans-thoracic impedance |
| Range: | Adult: 0 to 200 rpm Pediatric, neonate: 0 to 200 rpm |
| Resolution: | 1 rpm |
| SpO₂ Pulse Oximetry | |
| Mindray SpO₂ | |
| Range: | 0 to 100% |
| Resolution: | 1% |
| PR Range: | 20 to 300 bpm |
| Nellcor SpO₂ | |
| Range: | 1 to 100% |
| Resolution: | 1% |
| PR Range: | 20 to 300 bpm. |
| Temperature | |
| Parameter: | T1, T2, TD |
| Range: | 0 to 50 °C (32 to 122 °F) |
| Resolution: | 0.1 °C |
| NIBP | |
| Operating mode: | Manual, Auto, STAT |
| Static pressure range: | 0 to 300 mmHg |
| Displayed Pressures: | Systolic, Diastolic, Mean |
| Cuff inflation pressure(Default):Adult: | 160±5 mmHg |
| | Pediatric: 140±5 mmHg |
| | Neonate: 90 ± 5 mmHg |
| CO₂ | |
| Sidestream CO₂ | |
| Measurement range: | 0 to 150 mmHg |
| Resolution: | 1 mmHg |
| awRR measurement range: | 0 to 150 rpm |
| awRR accuracy: | <60 rpm: ±1 rpm 60 to 150 rpm: ±2 rpm |
| Microstream CO₂ | |
| Measurement range: | 0 to 99 mmHg |
| Resolution: | 1 mmHg |
| awRR measurement range: | 0 to 150 rpm |
| awRR accuracy: | 0 to 70 rpm: ±1 rpm 71 to 120 rpm: ±2 rpm 121 to 150 rpm: ±3 rpm |
| IBP | |
| Channels: | 2 |