

# SE-3/300

## Electrocardiograph

Version 1.2



## Technical Specifications

### Physical Specifications

#### Dimensions

SE-3: 290mm×220mm×85mm

SE-300 series: 300mm ×260mm×85mm

#### Weight

2.0 kg (Excluding recorder paper and battery)

#### Display

3.5 inch, 320×240 LCD screen

### Power Supply

#### Mains Supply

Operating Voltage = 100V-115V~ / 220V-240V~

Operating Frequency = 50Hz/60Hz

#### Internal Li-ion Battery Pack

Rated voltage = 14.8V

Rated capacity = 2500mAh

(3 hours continuous printing, 330 ECG reports)

Necessary Charge time: 3 hour

### Recording

#### Recorder:

Thermal dot-matrix recorder

#### Recorder Paper:

Folded thermal paper,

80mm×70mm×200pages

Rolled thermal paper, 80mm×20m

#### Printing Density:

8 dots per mm / 200 dots per inch (amplitude axes)

40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s)

#### Paper Speed:

5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)

### HR Recognition

#### HR Range

30 BPM ~300 BPM

#### Accuracy

±1 BPM

### ECG Unit

#### Leads:

12 standard leads

#### Acquisition Mode:

simultaneously 12 leads

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**A/D Converter:**

12bits/24bits(optional, with DE12 ECG board)

**Time Constant:**

≥3.2s

**Sampling Frequency:**

1000Hz. (10000Hz for pacemaker as optional)

**Input Impedance:**

≥50MΩ (10Hz)

**Input Voltage Range:**

≤±5 mV<sub>pp</sub>

**CMRR:**

≥110dB / ≥115dB (optional, with DE12 ECG board)

**Resolution:**

2.52μV/LSB

**Frequency Response:**

0.05Hz ~ 150Hz (-3dB)

**Gain:**

2.5, 5, 10, 20, 10/5 mm/mV, AGC

**Input Circuit Current:**

≤0.05μA / ≤0.01μA (optional, with DE12 ECG board)

**Calibration Voltage:**

1mV±3%

**Pacemaker****Amplitude:**

±2mV ~ ±700mV

**Width:**

0.1ms ~ 2.0ms

**Filter****AC Filter:**

50/60Hz

**DFT Filter:**

0.05Hz/0.15Hz/0.25Hz/0.32Hz/0.5Hz/0.67Hz

**EMG Filter:**

Off/25Hz/35Hz/45Hz

**LOWPASS Filter:**

150Hz/100Hz/75Hz

**Data Transmission****Report Format:**

DAT, PDF, FDA-XML, DICOM, SCP

**Data Transmission:**

Ethernet, RS232

**Data Management System:**

SE-1515 Data Management System

**Data Storage:**

500 ECGs

**Safety Specifications****Comply with:**

IEC 60601-1:2005/A1:2012  
EN 60601-1:2006/A1:2013  
IEC 60601-1-2: 2014  
EN 60601-1-2: 2015  
IEC/EN 60601-2-25

**Anti-electric-shock type:**

Class I with internal power supply

**Patient Leakage Current:**

NC <10μA (AC) / <10μA (DC)  
SFC <50μA (AC) / <50μA (DC)

#### Patient Auxiliary Current

NC <10 $\mu$ A (AC) / <10 $\mu$ A (DC)  
SFC <50 $\mu$ A (AC) / <50 $\mu$ A (DC)

#### Anti-electric-shock degree:

CF type with defibrillation-proof

### Environment Specifications

#### Temperature:

Transport & Storage: -20°C (-4°F) ~ +55°C (+131°F)  
Working: +5°C (+41°F) ~ +40°C (+104°F)

#### Relative Humidity:

Transport & Storage: 25%~93% Non-Condensing  
Working: 25%~80% Non-Condensing

#### Atmospheric Pressure:

Transport & Storage: 70kPa ~106kPa  
Working: 86kPa ~106kPa