

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

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_{pp}

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 μ A (AC) / <10 μ A (DC)
SFC <50 μ A (AC) / <50 μ 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