DEFIGARD® 400

Biphasic Defibrillator

Features

- Large 8.4" colour TFT screen with LED backlight
- Single rotary knob operation
- Direct function keys
- Visual instructions and guidance on screen
- 3 ECG strips memory
- 24 hours trend for all parameters
- Adult and pediatric application
- Light weight & portable

Optional

- AED
- External pacemaker with fix, demand and overdrive mode
- SpO_2
- NIBP
- $ETCO_2$
- Internal defibrillation
- Integrated thermal printer with auto and manual modes of printing
- USB interface for data storage
- GSM transmission

SCHILLER

The Art of Diagnostics

DEFIGARD® 400 Technical Data

General

Net Wt : 8 Kgs Approx
Mains and battery operated
Power : 230 VAC, 50 Hz
Parameters displayed : Up to 2 ECG channels, HR, selected energy delivered energy, status bar, mains and battery charge, LED indicator
Other :
- Trim knob and direct function keys for Print, Mute & Freeze
- Auto Print on Alarm
- Digital out for Central Monitoring Station depending on the configuration

Display

Size : 8.4"
Resolution : 800 x 600 pixels
Type : High resolution colour TFT with LED backlight

Trends

Memory : All parameters are stored for 24 hours
Format : Tabular and graphical

Battery

Rechargeable, sealed lead acid battery (12V, 4.5 AH)
Battery charging time : 10-12 hrs. for a completely discharged battery
Unit operating time on battery : 2-3 hrs. in monitoring mode
Mains & battery (%) charge indicator on display
Number of shocks on fully charged battery : > 100 @ 200 J

Alarms

Graded alarms : Visual and acoustic
Alarm silence : 120 Seconds
Digital alarm volume control
System alarms : Monitor, defibrillator, battery charge
Physiological alarms : ECG

Defibrillator

Energy levels :
- Paddles : 2, 4, 8, 15, 30, 50, 70, 90, 120, 150, 200
Waveform : Impedance compensated biphasic
Charging time : Approx 8 seconds for 200 J
Defibrillation mode : Non-synchronized, synchronized

ECG

Amplifier : Fully isolated, defibrillation - protected, >5 kv
Choice of leads : I, II, III, aVR, aVL, aVF, & V paddle ECG
Display trace : 4 sec single trace or 8 sec Dual trace ECG display
HR display : 30-300 bpm
Digital gain selection : 2.5, 5, 10, 20 mm/mv
ECG strip selection for storage & printing
Sampling frequency : 240 Hz
Inputs : CF class patient cable 5 leads
User selectable baseline
Freeze ECG
Text error messages

Automated External Defibrillator (optional)

Voice and visual prompts to guide the user
Energy delivered through adult or child pads

External Pacemaker (optional)

Operating mode: Fix, demand and overdrive (frequency *3)
Duration: 40 ms (20 ms in over drive mode) ±10%
Frequency: 40 to 210 p/min ± 5%

Nellcor™ Pulse Oximetry (optional)

Amplifier: Fully isolated, defibrillation - protected > 5 kv
Display:
- Numerical display in %
- Graphic display of signal strength
- Plethysmogram
- Numerical display of the peripheral pulse rate
- Text error messages
Pulse range: 0 to 300 bpm
Accuracy:
- Adult: 70 to 100% (+ 2 digits)
  50 to 69% (+ 3 digits)
  0 to 49% (unspecified)
- Neonatal: 70 to 100% (+ 3 digits)

NIBP (optional)

Cuffs: Different cuff sizes available
Measuring principle: Oscillometric
Measuring range: 10 to 270 mm/Hg
Accuracy : ± 5 mm Hg, Standard Deviation < 8 mmHg
Measurement: Automatic & manual mode
Display: Numerical, individual measurement values and trends

$ETCO_2$ (optional)

IRMA Mainstream
Range: 0 - 9.9 kPa / 0 - 99 mmHg
Accuracy: ±0.3 kPa / ± 2 mmHg
Calibration: No routine calibration is required
Warm up time: 5 sec
Shock proof design: Withstands repeated 1 meter drop
Adult / Pediatric airway adapters : < 7 ml dead space

Internal paddles (optional)

Adult and child spoon electrodes

Thermal printer (optional)

Auto printout on defibrillator usage
Chart - Paper : Thermo reactive 80 mm 'Z' fold

USB interface for data storage (optional)

Events and trend storage
2 GB data storage

Environmental conditions

Galvanic protection : CF type
Temperatures : +0° to + 50° C
Atmospheric pressure : 500 to 1060 hPa
Relative humidity : 30 to 95% (no condensation)

Standards

Certification :
Protecting class : I as per IEC 60601-1 with internal battery
Safety standards : IEC 60601-1, IEC 60601-1-2 (61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11, 61000-4-8, CISPR11), IEC 60601-2-4, IEC 60601-2-25, IEC 60601-2-27, IEC 60601-2-49
Facility certification : ISO : 9001 : 2008, ISO : 13485 : 2003
Conformity : CE according to Council Directive 93/42/EEC

Standard accessories

- 5 Lead ECG cable - 1 no.
- Reusable ECG electrodes with stickers - 1 pack
- Chest bulb electrodes - 1 set
- Earth cable - 1 no.
- Jelly bottle - 1 no.
- Power cord - 1 no.
- User manual - 1 no.
- Warranty card - 1 no.

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