



DF-11BISPHASIC DEFIBRILLATOR

FEATURES:

- 7" Colour Display with built in printer
- · Charging time 6 sec on mains
- Offers variable energy level selection (2,3,5,10,20,30,50,70,100,150,200 Joules)
- Battery capacity 70-100 shocks on single charge
- · Adult & pediatric paddles support
- · Compact & Light weight
- · Print out on 2" thermal paper
- · Voice prompt facility

OPTIONAL:

AED, Pacer, Sp02, NIBP, EtC02, Internal Paddle, 360 Joules



DF-11

BISPHASIC DEFIBRILLATOR

TECHNICAL SPECIFICATION

GENERAL

Display : 7 Inch Colour TFT
Display Area : 150 mm x 90 mm

Dimensions : H 280 x W 330 x D 220 mm (Max) without Paddle

Weight : Approx. 6 Kgs. Max.
Unit ON-OFF : By front panel push button
Operation : By front panel keyboard, Encoder

Alarm : User adjustable high & low limit, Audible and visual

alarming

Trend : 24 hrs graphical and tabular trend of ECG,SpO2,

NIBP,EtC02

Charge / Discharge : Charge and Shock buttons on front panel and Control

oaddles

POWER SUPPLY

Input : 150-270 VAC, 50 Hz 1Ø Battery : 12 V 4.5Ah, Rechargeable

Battery capacity : 3 hours for monitor and 70-100 shocks on full charge

LED indicator : Low battery and battery charging Power consumption : 30 Watts (max) in ECG mode

ENVIRONMENTAL

Operating Temp. : $+5^{\circ}\text{C}$ to $+5^{\circ}\text{C}$

Humidity : up to 95% non-condensing

Defib (External Paddles)

Operating Mode : Manual

Waveform : Biphasic Truncated Exponential Energy : 2 to 200 joules in 12 steps selection

Energy display : Displays selected and charged/delivered energy Energy

delivery begins within 60 ms of the QRS Peak

Charging Time : 6 seconds on Mains

Paddle Assembly : External paddle assembly with coil retractable high voltage

cable. Adults & Pediatric paddle integrated to same handle

Check Mode : Manual check mode
Patient Impedance range : 35 ohm to 250 ohm
Shock Delivery : Through paddles or pads

Defib (Internal Paddles) (Optional)

Operating Mode : Manual

Waveform : Biphasic Truncated Exponential
Energy : 2 to 50 joules in 8 steps selection
Synchronous Cardio : Energy delivery begins within 60 ms of

Version the QRS Peak
Charging Time : 6 seconds on Mains

Paddle Assembly : Internal paddle assembly with paddle extension cord

ECG

Frequency response : 0.5 Hz to 35 Hz
Patient isolation : Optical isolation
Lead selection : Lead I, II and III
Gain setting CMRR : 0.5, 1.0 and 2.0

Sweep speed : 12.5, 25.0, 50.0 mm/sec

Digital filter : Digital signal processing for good quality of ECG

ECG traces viewing : 4 seconds of ECG traces

HEART RATE

Range : 10-250 BPM
Accuracy : +/- 2 BPM
Resolution : 1 BPM

Tone : Beep on every QRS detected

Alarm limit setting : 10-250 (step of 1)

PRINTER

Paper Type : Thermal paper 50/55mm width, 20 meters length for 2

inch printer

Event Printing : Prints 5 seconds pre & post ECG with Date, Time Energy

and mode, Shock Status

ECG in Defib Mode : Prints last 10 sec ECG through paddle

Print Annotates in : Time, Date, Mode, lead name, gain, sweep speedDefib

Mode

ECG in Monitor : Prints last 10 sec ECG through cable

Mode : Print Annotates in Time, Date, selected lea name, Gain,

Sweep speed

Monitor Mode

Manual Defib Check : Prints the status of Shock, Energy, Date and Time Mode

Sp02 (Optional)

Systolic, Diastolic and Mean arterial pressure

Range : 0 - 100%Accuracy:70 - 100% + 2digits,50 - 69% + 3

digits

Pulse rate : Displayed in ECG window, when PR is selected

Pulse beep : Yes, with volume control PR range : 10 to 250 bpm (+/-2bpm) Pitch variation with change in oxygen saturation

NIBP (Optional)

Systolic,Diastolic and Mean arterial pressure
Range : 10-250mmHg
Method : Oscillometric

NIBP interval : User selectable - 2 min. to 25min.

Modes : Manual, auto Cuff deflation : Automatic

Safety features : Automatic deflation if cuff pressure exceeds 280mmHg NIBP status display : "Ready", when not taking reading as "Measuring", when

taking reading and "Error, if reading could not be taken due

to some error while measuring

Patient Type : Adult, Pediatric, Neonate

AED Mode (Optional)

Wave form : Biphasic truncated exponential

AED shock series : Energy level 200JCharge command: Automatic after

identifying shockable rhythm

Shock Command : Front panel button, shock

Controls : Analyze

Defibrillation : Self adhesive, adult pads

Electrode

Voice and Text : Extensive text and audible messages to guide userprompts

PACER (Optional)

Wave form : Monophasic

Modes : Demand or Non Demand

Pulse Current : From 10mA to 150 mA (resolution of 10 mA),

Pulse Duration : 40 ms (+/- 1ms)

Pacing rate : From 20 ppm to 250 ppm (increments of 1 ppm)
Refractory period : 340ms (from30 to80ppm);240ms (from90 to180ppm)

Maximum output : 150 voltage Impedance range : 200 ohm to 1k ohm

EtCO2 (Optional)

Parameter : EtCO2,RR

Adoptor : Adult, Pediatric, Neonate
Measurement Mode : Mainstream & side stream

EtCO2 Range : 0-100mmhg Accuracy : +/- 2 mmHg Respiration Range : 0-120 bpm

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