

TOUCH 5

COMBI-PLUS - Electro Surgical Generator

ALAN

Since 1997.....



FEATURES & SPECIFICATIONS

- Advance multiple microcontroller based generator for Open and Laparoscopic Surgeries.
- 5-inch LCD touch screen display with intuitive interface, and additional feather touch buttons.
- Intuitive User Interface facilitates easy program and modes selection with Seamless Operations.
- It Features 2 Monopolar and 1 Bipolar Sockets, for handswitch / footpedal without change over.
- It is compatible with universal accessories used in Monopolar and Bipolar Surgical Applications.
- Supports ALAN's special Capacitive Patient Plate for maximum safety of the patients in surgeries.
- PPCM feature monitors patient's contact quality and provides real-time graphical representation
- "Self-Test", diagnoses at every "START UP" for Generator's Healthiness & Operational Integrity.
- Automatically stops the power output and provides audio-visual indication during problem.
- Multiple cutting modes with varied regulated wattages for smooth and precise skin incisions.
- It has Isolated Monopolar and Bipolar outputs, Eliminating the Frequent need for Switch Overs.
- HF power output can be adjusted using touch screen and handswitch pencil from sterile field.
- Simultaneous monopolar coagulation for 2 surgeons via handswitch and footswitch pairing.
- Tissue monitoring technology measure Tissue Impedance & Dynamically varies the HF Output.
- Auto feature in Monopolar & Bipolar modes ensure optimum power, without tissue charring.
- System restores previous activated power settings when encountered power interruptions.
- "Current Meter Display" in the Bipolar Mode to Indicate the "Flow of Current" during surgeries.
- HF current leakage monitoring & controlling system supervises and controls it less than 10 uA.
- 99 + 1 user programmable memory for surgeons to store & recall surgery preferences and details.
- Upgradeable and compatible with Argon Plasma Coagulation & Smoke Evacuator System.

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Monopolar Cut Modes:

Pure	: 400 W @ 350 Ohms	CF 1.5
Lapcut	: 300 W @ 350 Ohms	CF 1.5
Blend	: 250 W @ 350 Ohms (10 Levels)	CF Variable
EndoCut	: 300 W @ 350 Ohms (10 Levels)	CF 1.5

Monopolar Coagulation Modes:

Lo Spray	: 120 W @ 350 Ohms	CF 9.0
Fulgurate	: 150 W @ 350 Ohms	CF 7.5
Lo-Desi	: 200 W @ 350 Ohms	CF 3.0
Soft	: 300 W @ 150 Ohms	CF 1.5
Auto Desi	: Monopolar Desiccate with Auto-Stop	
Auto Soft	: Monopolar Soft with Auto-Stop	

Bipolar Cut Modes:

LowCut	: 120 W @ 100 Ohms	CF 1.5
HighCut	: 120 W @ 100 Ohms	CF 1.5
ScalCut	: 200 W @ 100 Ohms (5 Levels)	CF 1.5

Bipolar Coagulation Modes:

Cut	: 120 W @ 100 Ohms	CF 1.5
Macro	: 120 W @ 100 Ohms	CF 1.5
Micro	: 100 W @ 100 Ohms	CF 1.5
Auto Micro	: Bipolar Micro with Auto-Stop	
Auto Start	: Bipolar Micro with Auto-Start-Stop	

Input Supply

Input	: 230 VAC $\pm$ 20%, 50Hz
Power Consumption	: 750VA Max
Input Fuse	: 5A T
Output Control	: Colour TFT Display with Touch Screen and Push buttons in all Modes
Max. Power Output	: 400 Watts

Safety Standards

Basic Construction	: As per IEC 60601-1, IEC 60601-1-2 & IEC 60601-2-2
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Classifications

Protection Class	: I
Mdd. Class	: II b
Pollution degree Class	: II
Overvoltage category	: II
Class	
Unit Type	: CF
All Outputs	: Floating Output (All output ports are CF Type)
Electrical Potential	: Connecting Pin and Indicated by Symbol
Balancing	
PER	: 98
Dimension	: 320mm (W) x 160mm (H) x 360mm (D)
Weight	: Maximum 7.0 Kg

Operating Parameters

Ambient temperature range	: +10° C to +40° C
Relative humidity	: 30% to 75% non-condensing
Atmospheric pressure	: 700 millibars to 1060 millibars

Transport and Storage

Ambient temperature range	: -30° C to +65° C
Relative humidity	: 0% to 90% non-condensing
Atmospheric pressure	: 500 millibars to 1060 millibars

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