

# ValleyLab Force FX

Generador Electrocauterio

Destaca la tecnologia “instant response” para mejorar su ejecucion en puestos de potencia mas bajos

#### Tecnologia “instant response” (respuesta instantanea):

Esta tecnologia provee mejor ejecucion en puestos de potencia mas bajos, lo cual reduce el riesgo de danar el tejido y de estimulacion neuromuscular, y reduce la necesidad de subir la potencia del generador.

#### Un corte mas suave en todos los tipos de tejido:

El Force FX ajusta automaticamente, respondiendo a cambios en el tejido, manteniendo el suministro de potencia sin y tambien minimizando la Resistencia.

#### Mejora seguridad y confiabilidad y minimize riesgos

del electrocauterio: La coneccion de 2 o mas circuitos a traves de un condensador (capacitive coupling) se baja por 30-50% cuando se utilize la tecnologia “instant response.” Se realize la reduccion a traves de la minimizacion del voltaje RMS y la armonia de alta frecuencia. La bajada del voltaje significa menos estimulacion neuromuscular y la subida de la precision del suministro de energia, lo cual baja el danado colateral.



## ESPECIFICACIONES



Peso:  
< 18 lbs (< 8.1 kg)



Altura:  
4.38 in (11.1 cm)

Anchura:  
14 in (35.6 cm)

Longitud:  
17 in (43.9 cm)



#### Requisitos de Energía de Entrada:

El rango de funcionamiento es de 85 a 132 voltios CA. La corriente maxima es de 7 amperios en corte y 4 amperios en Coag

PER: 98



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## ESPECIFICACIONES (cont.)

### Formas de Onda de Salida

#### Bipolar

Precise: 470 kHz sinusoid

Standard: 470 kHz sinusoid

Macro: 470 kHz sinusoid

#### Monopolar Cut

Low: 390 kHz sinusoid. Similar to the Pure Cut mode except the maximum voltage is limited to a lower value.

Pure: 390 kHz sinusoid

Blend: 390 kHz bursts of sinusoid, recurring at 27 kHz intervals. 50% duty cycle envelope.

#### Monopolar Coag

Desiccate: 240 kHz sinusoid repeated at 39 kHz. 8% duty cycle.

Fulgurate: 390 kHz damped sinusoid bursts with a repetition frequency of 30 or 57 kHz into 500 ohms

Spray: 390 kHz damped sinusoidal bursts with a randomized repetition centered at 28 kHz. Frequencies include 21 kHz

Output power changes by less than 15% or 5 watts, whichever is greater, as the line voltage varies from 104-132 volts and 208- 264 volts (at rated load).

### Fuga de baja frecuencia (50-60 Hz); fuente de corriente, cables del paciente, todas las salidas unidas

Normal polarity, intact chassis ground: <10 µA

Normal polarity, ground open: < 50 µA

Reverse polarity, ground open: < 50 µA

Sink current, 140V applied, all inputs: < 50 µA

### Sistema de Monitoreo de Calidad de Contacto REM™

#### Measurement Frequency:

80 kHz ± 10 kHz

#### Measurement Current: Less than 10 µA

#### Acceptable Resistance Ranges:

REM™ pad – 5-135 ohms

Non-REM™ pad – less than 20 ohms

Acceptance range is 5-135 ohms after REM PolyHesive II return electrode is applied.

### REM™ Adaptable

REM™ trip is baseline impedance plus 40%. For example, if the baseline impedance is 30 ohms, the upper level trip approximately 42 ohms. If the pad-patient impedance falls below the baseline impedance, a new baseline is established.

### Fugas de Alta Frecuencia

Bipolar: Less than 60 mA (rms)

Monopolar: Less than 150 mA (rms)

### Características de Salida

#### Bipolar

##### Precise Mode:

Maximum P-P Voltage: 450

Rated Load (OHMS): 100

Maximum Power (Watts): 70

Crest Factor\* (Typical): 1.5

##### Standard Mode:

Maximum P-P Voltage: 320

Rated Load (OHMS): 100

Maximum Power (Watts): 70

Crest Factor\* (Typical): 1.5

##### Macro Mode:

Maximum P-P Voltage: 750

Rated Load (OHMS): 100

Maximum Power (Watts): 70

Crest Factor\* (Typical): 1.5

#### Monopolar Coag

##### Desiccate Mode:

Maximum P-P Voltage: 3500

Rated Load (OHMS): 500

Maximum Power (Watts): 120

Crest Factor\* (Typical): 5

##### Fulg. High Crest Factor\* Mode:

Maximum P-P Voltage: 8500

Rated Load (OHMS): 500

Maximum Power (Watts): 120

Crest Factor\* (Typical): 7.0

##### Fulg. Low Crest Factor \*Mode:

Maximum P-P Voltage: 6900

Rated Load (OHMS): 500

Maximum Power (Watts): 120

Crest Factor\* (Typical): 5.5

##### Spray Mode:

Maximum P-P Voltage: 9000

Rated Load (OHMS): 500

Maximum Power (Watts): 120

Crest Factor\* (Typical): 8

### CEM™ Mode

#### Monopolar Cut (Low):

Maximum P-P Voltage: 1000

Rated Load (OHMS): 300

Maximum Power (Watts): 100

Crest Factor\* (Typical): 1.5

#### Monopolar Coag (Dessicate)

Maximum P-P Voltage: 3500

Rated Load (OHMS): 500

Maximum Power (Watts): 70

Crest Factor\* (Typical): 5

\*Crest Factor is an indicator of a waveform's ability to coagulate without cutting

