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# VALLEYLAB® FORCE 4B®

- High Power Digital Electrosurgical Unit.
- This unit has digital display for output power and can be used for almost any electrosurgical procedure.
- Offers both Monopolar and bipolar output.




Typical Manufacturer's Picture

## Specifications

**Dimensions:** 6 x 13 x 22 inches (15 x 33 x 56 cm)
**Weight:** 25 lbs. (11.4 kg)
**Input Power Source:** Nominal input line voltage is 120 VAC with a full range of 95-140 VAC. Frequency linearies from 45 to 64 Hz

| | **Max. Current** | **Max. Power** |
|---|---|---|
| Idle | 0.4 A | 50 W |
| Cut | 5.0 A | 700 W |
| Coag | 3.0 A | 300 W |
| Bipolar | 1.5 A | 180 W |

| **Output Characteristics** | **Max. P-P Voltage** | **Rated Load (ohms)** | **Nominal Power (watts)** | **Crest Factor** |
|---|---|---|---|---|
| Cut | 5000 | 300 | 300 | 1.9 @ 100 W |
| Blend 1 | 5800 | 300 | 250 | 3.0 @ 100 W |
| Blend 2 | 5800 | 300 | 200 | 3.8 @ 100 W |
| Blend 3 | 6500 | 300 | 200 | 6.0 @ 100 W |
| Spray Coag | 9000 | 300 | 120 | 10.0 @ 50 W |
| Soft Coag | 900 | 300 | 60 | 12 .0@ 50 W |
| Low Volt Coag | 6500 | 300 | 99 | 6.0 @ 50 W |
| Std Bipolar | 1800 | 100 | 70 | 5.5 @ 40 W |
| Precise bipolar | 600 | 100 | 70 | 2.2 @ 40 W |

| **Output Waveform** | **Sinusoid** | **Duty Cycle** | **Recurrence** |
|---|---|---|---|
| Cut | 750 kHz | ---------- | ---------- |
| Blend 1 | 750 kHz bursts | 50% | 31 kHz |
| Blend 2 | 750 kHz bursts | 31% | 31 kHz |
| Blend 3 | 750 kHz bursts | 27% | 31 kHz + inductive discharge damped sinusoidal bursts |
| Spray Coag | 750 kHz | _____ | 31 kHz |
| Soft Coag | 750 kHz | _____ | 20.7 kHz |
| Low Voltage Coag | 750 kHz bursts | 27% | 31 kHz + inductive discharge damped sinusoidal bursts |
| Std Bipolar | 750 kHz | 25% | 31 kHz |
| Precise Bipolar | 750 kHz | _____ | _____ |

**Low Frequency Leakage:** (50/60 Hz) Normal polarity: intact chassis ground - <10 mA, ground open - <100 mA. Reverse polarity: ground open - <100 mA. Sink current, 140V applied, all inputs - <150 mA. Chassis source current, ground open - <110 mA
**High Frequency risk parameters:** Bipolar RF leakage current: <150 milliamperes
**REM™ Contact Quality Monitor:** Measurement frequency: 140 kHz ± 10 kHz. Measurement current: 1.0 mA ± 0.5 mA

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