

AL-811/AL-811H Specifications:

Input:
Circuit type: Pi-network, slug tuned coils. **Maximum VSWR at resonance:** 1.3:1 **Minimum 2:1 VSWR bandwidth:** 15%. **Max. drive power permissible:** AL-811: 80 Watts; AL-811H: 100 Watts. **Typical drive rated output:** AL-811: 60 Watts; AL-811H: 75 Watts
Output:
Typical SSB PEP voice operation: AL-811: 600 Watts, AL-811H: 800 Watts. **Typical CW operation:** AL-811: 400 Watts; AL-811H: 600 Watts. **1/2 hour PEP two tone test:** AL-811: 500 Watts; AL-811H: 650 Watts. **1/2 hour continuous carrier (RTTY):** AL-811: 300 Watts input; AL-811H: 400 Watts input.
Power Supply:
Circuit type: full wave bridge. **No load voltage:** 1700 Volts. **Full load voltage:** 1500 Volts. **Full load current:** AL-811: 550 mA; AL-811H: 650 mA. **Regulation:** 10%. **Maximum draw at rated output:** AL-811: 8 A; AL-811H: 10A. **AC Input:** 120 V, 50/60 Hz (AL-811/H) 240 V, 50/60 Hz (AL-811X/AL-811HX).
Tubes:
Type: (AL-811: 3) (AL-811H: 4) 811A vertically mounted. **Continuous dissipation:** 65 Watts per tube. **Warm-up time:** 5 seconds
Metering:
Multimeter: reads HV and plate current. **Grid Meter:** Reads PA grid current
ALC:
 Negative going, 0-20 V, adjustable, phono jack
***Efficiency SSB (envelope crest):** greater than 70%
MARS/WARC:
 Yes, set to the nearest band.
Connectors:
Relay: engages amplifier when grounded. +12 VDC open circuit and supplies 100 mA when grounded. A built-in back-pulse cancelling diode protects the exciter.
RF input:
 SO-239, 50 Ohm input.
RF Out:
 50 Ohms with full power into any SWR below 3:1.
Power:
 NEMA 5-15P, 120 Volts.
Dimensions:
 15 1/2"Dx14 1/2"Wx8 1/2"H inches.
Operating Weight:
 32 pounds.
Shipping Weight:
 41 pounds.
Frequency Coverage:
 Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details.
Third Order IMD at Rated Output:
 -33 dB.

AL-80B Specifications:

Input:
Circuit type: Pi-network, slug tuned coils. **Maximum VSWR at resonance:** 1.3:1 or less. **Minimum 2:1 VSWR bandwidth:** 20% of center frequency. **Max. drive power permissible:** 100 Watts. **Typical drive for full power output:** 85 Watts.
Output:
Typical SSB PEP voice operation: 1000 Watts. **Typical CW operation:** 800 Watts. **1/2 hour PEP two tone test:** 800 Watts. **1/2 hour continuous carrier (RTTY):** 500 Watts.
Power Supply:
Circuit type: Full wave voltage doubler. **No load voltage:** 3000 Volts. **Full load voltage:** 2700 Volts. **Full load current:** .450 Amp. **Regulation:** 10%. **Transformer:** 26 pounds. **Capacitors:** 33 uFd total, computer grade. **Maximum draw at rated output:** 12 Amps. **AC Input:** 120 V, 50/60 Hz.
Tubes:
Type: Classic 3-500.
Continuous dissipation: 500 Watts. **Warm-up time:** 5 seconds.
Metering:
Multimeter: reads HV, forward power, reflected power, SWR, ALC, ALC set.
Current Meter: Reads plate and grid current.
ALC:
 True ALC 0-10V negative, front panel adjustable.
Efficiency CW: Typically 66% or greater.
***Efficiency SSB (envelope crest):** Approximately 66% or greater.
MARS/WARC:
 Yes, set to the nearest band.
Connectors:
Keying: Supplies 100 mA when grounded, built-in back-pulse cancelling diode, protects the exciter. 12 VDC open circuit.
RF input:
 SO-239, 50 Ohm input.
RF Out:
 50 Ohms with full power into any SWR below 3:1.
Power:
 NEMA 5-15P, 120 Volts.
Dimensions:
 15 1/2"Dx14 1/2"Wx8 1/2"H inches.
Operating Weight:
 48 pounds.
Shipping Weight:
 Unit, 54 lbs.; Tube, 3 lbs.
Frequency Coverage:
 Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details.
Third Order IMD at Rated Output:
 -35 dB.

AL-572 Specifications:

Input:
Circuit type: Pi-network, slug tuned coils. **Maximum VSWR at resonance:** 1.3:1 or less. **Minimum 2:1 VSWR bandwidth:** 20% of center frequency. **Max. drive power permissible:** 100 Watts. **Typical drive for full power output:** 70 Watts.
Output:
Typical SSB PEP voice operation: 1300 Watts nominal (7 MHz). **Typical CW operation:** 900 Watts nominal. **1/2 hour PEP two tone test:** 1000 Watts. **1/2 hour continuous carrier (RTTY):** 650 Watts.
Power Supply:
Circuit type: Full wave voltage doubler. **No load voltage:** 2800 Volts. **Full load voltage:** 2500 Volts. **Full load current:** .7 Amp. **Regulation:** 14% or less. **Transformer:** 21 pounds. **Capacitors:** 33 mFd total, computer grade. **Maximum draw at rated output:** 16 Amps. **AC Input:** 120 V, 50/60 Hz.
Tubes:
Type: 572B (x4).
Continuous dissipation: 640 Watts. **Warm-up time:** 5 seconds.
Metering:
Multimeter: reads HV, forward power, reflected power, SWR, ALC, ALC set.
Current Meter: Reads plate and grid current.
ALC:
 True ALC 0-10V negative, front panel adjustable.
Efficiency CW: Typically 60% or greater.
***Efficiency SSB (envelope crest):** Typically 60% or greater.
MARS/WARC:
 Yes, set to the nearest band.
Connectors:
Keying: Supplies 100 mA when grounded, built-in back-pulse cancelling diode, protects the exciter. 12 VDC open circuit.
RF input:
 SO-239, 50 Ohm input.
RF Out:
 50 Ohms with full power into any SWR below 3:1.
Power:
 NEMA 5-15P, 120 Volts.
Dimensions:
 15 1/2"Dx14 1/2"Wx8 1/2"H inches.
Operating Weight:
 40 pounds.
Shipping Weight:
 48 lbs.
Frequency Coverage:
 Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details.
Third Order IMD at Rated Output:
 -34 dB (below PEP rated output).

AL-800 Specifications:

Input:
Circuit type: Pi-network, resistor attenuated. **Maximum VSWR at resonance:** 1.3:1 or less. **Minimum 2:1 VSWR bandwidth:** within +20% or -40% of selected band. **Max. drive power permissible:** 100 Watts. **Typical drive for full power output:** 70 Watts.
Output:
Circuit type: Pi/Pi-network output. **Typical SSB PEP voice operation:** 1250 Watts. **Typical CW continuous operation:** 1000 Watts. **1/2 hour PEP two tone test:** 1000 Watts. **1/2 hour continuous carrier (RTTY):** 750 Watts.
Power Supply:
Circuit type: Full wave voltage doubler. **No load voltage:** 2600 Volts. **Full load voltage:** 2300 Volts. **Full load current:** 1 Ampere. **Regulation:** 12% or less. **Transformer:** 32 pounds grain oriented EI lamination. **Capacitors:** 78 uFd total, high current computer grade. **Maximum draw at rated output:** 12 Amps. **AC Input:** 120 V, 50/60 Hz.
Tubes:
Type: Eimac® 3CX800A7.
Continuous dissipation: 800 Watts. **Warm-up time:** 180 seconds. **Estimated life:** 6,000 hours ICAS.
Metering:
Multimeter: reads *Peak* forward power, *Peak* reflected power, SWR, ALC threshold, ALC output voltage, and high voltage. **Current Meter:** Reads plate and grid current.
ALC:
 Negative going, 0-10 Volts, phono jack output, front panel adjustments.
Efficiency CW: Approximately 66% or greater.
***Efficiency SSB (envelope crest):** Approximately 66% or greater.
MARS/WARC:
 Yes, set to the nearest band.
Connectors:
Keying: Requires contact closure or sink of +12 VDC at 100 mA, back pulse protected, phono jack.
RF input:
 SO-239, 50 Ohm input.
RF Out:
 50 Ohms with full power into any SWR below 3:1.
Power:
 NEMA 5-15P, 120 Volts.
Dimensions:
 17 1/4"Dx14 1/2"Wx8 1/2"H inches.
Operating Weight:
 51 pounds.
Shipping Weight:
 Unit, 59 lbs.; Tubes, 3 lbs.
Frequency Coverage:
 Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license.
Third Order IMD at Rated Output:
 -35 dB.

AL-800H Specifications:

Input:
Circuit type: Pi-network, slug tuned coils. **Maximum VSWR at resonance:** 1.3:1 or less. **Minimum 2:1 VSWR bandwidth:** within 20% of center frequency. **Max. drive power permissible:** 100 Watts PEP. **Typical drive for full power output:** 55 Watts.
Output:
Circuit type: Pi/Pi-network output. **Typical SSB PEP voice operation:** 1500+ Watts. **Typical CW continuous operation:** 1500 Watts. **1/2 hour PEP two tone test:** 1500 Watts. **1/2 hour continuous carrier (RTTY):** 1000 Watts.
Power Supply:
Circuit type: Full wave voltage doubler. **No load voltage:** 2600 Volts. **Full load voltage:** 2250 Volts. **Full load current:** 1.2 Amperes. **Regulation:** 15%. **Transformer:** 32 pounds grain oriented EI lamination. **Capacitors:** 63 uFd total, high current computer grade. **Maximum draw at rated output:** 13 Amps at 240 VAC. **Typical line current at 1500 Watt PEP output:** 9 Amps at 240 VAC. **Power line current in standby:** .5 Amperes at 240 VAC.
Tubes:
Type: Eimac® (2) 3CX800A7.
Continuous dissipation: 800 Watts per tube, 1600 Watts total. **Warm-up time:** 180 seconds. **Estimated life:** 8,000 hours ICAS.
Metering:
Multimeter: reads *Peak* forward power, *Peak* reflected power, SWR, ALC threshold, ALC output voltage, and high voltage. **Current Meter:** Reads plate and grid current.
ALC:
 Negative going, 0-10 Volts, phono jack output, front panel adjustments.
Efficiency CW: Typically 65% or greater. ***Efficiency SSB (envelope crest):** Approximately 65% or greater.
MARS/WARC:
 Yes, set to the nearest band.
Connectors:
Keying: Engages contact closure or sink of +12 VDC at 100 mA, back pulse protected phono jack.
RF input:
 SO-239, 50 Ohm input.
Power:
 NEMA 5-15P, 240 Volts.
Dimensions:
 17 1/4"Dx14 1/2"Wx8 1/2"H inches.
Operating Weight:
 52 pounds.
Shipping Weight:
 Unit, 60 lbs.; Tubes, 5 lbs.
Frequency Coverage:
 Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification.
Third Order IMD at Rated Output:
 -35 dB.

* Exact performance measurements may vary due to the accuracy of test equipment and the measurement methods used. (Prices and specifications subject to change without notice or obligation).

AL-82 Specifications:	AL-1200 Specifications:	AL-1500 Specifications:	ALS-600 Specifications:	ALS-500M Specifications:
<p>Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.2:1 Minimum 2:1 VSWR bandwidth: 20%. Max. drive power permissible: 130 Watts. Typical drive rated output: 100 Watts</p> <p>Output: Typical SSB PEP voice operation: 1500 Watts. Typical CW continuous operation: 1500 Watts. 30 second PEP two tone test: 1800 Watts plus. 1/2 hour PEP two-tone test: 1800 Watts.</p> <p>Power Supply: Circuit type: full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: .8 Amp. Regulation: 10% or better. Transformer: 32 lb. HypersilR, capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 13 Amps. AC Input: 240 V, 50/60 Hz.</p> <p>Tubes: Type: 3-500 <i>Classic</i> (2).</p> <p>Continuous dissipation: 1000 Watts. Warm-up time: 5 seconds.</p> <p>Metering: Multimeter: Plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads PA grid current</p> <p>ALC: Negative going, 0-20 V, phono jack</p> <p>Efficiency CW: 65% typical. *Efficiency SSB (envelope crest): 62% typical.</p> <p>MARS/WARC: Yes, set to the nearest band.</p> <p>Connectors: Keying: engages amplifier when grounded. +12 VDC open circuit and supplies 100 mA when grounded. A built-in back-pulse cancelling diode protects the exciter.</p> <p>RF input: SO-239, 50 Ohm input.</p> <p>Power: NEMA 6-15P, 240 Volts.</p> <p>Dimensions: 18 1/2"Dx17Wx10H inches.</p> <p>Operating Weight: 76 pounds.</p> <p>Shipping Weight: Unit, 50 lbs.; Tubes, 6 lbs.; Transformer, 35 lbs.</p> <p>Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain modification details.</p> <p>Third Order IMD at Rated Output: -34 dB at 1500 Watts Output.</p>	<p>Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.2:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 130 Watts. Typical drive for full power output: 90 Watts.</p> <p>Output: Circuit type: Pi-L. 1/2 hour PEP two tone test: 1800 Watts. 30 second PEP two tone test: 1800 Watts plus.</p> <p>Power Supply: Circuit type: Full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: .8 Amp. Regulation: 10% or better. Transformer: 32 lb. HypersilR.</p> <p>Capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 13 Amps. AC Input: 240 V, 50/60 Hz.</p> <p>Tubes: Type: <i>Eimac</i>* 3CX1200A7.</p> <p>Continuous dissipation: 1200 Watts. Warm-up time: 5 seconds.</p> <p>Metering: Multimeter: Reads plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads grid current.</p> <p>ALC: Negative going, 0-20 Volts, adjustable, phono jack.</p> <p>Efficiency CW: 65%. *Efficiency SSB (envelope crest): 62%.</p> <p>MARS/WARC: Yes, set to the nearest band.</p> <p>Connectors: Keying: Engages amplifier when grounded, +12 VDC open circuit and supplies 100 mA when grounded, built-in back-pulse cancelling diode protects the exciter.</p> <p>RF input: SO-239, 50 Ohm input.</p> <p>Power: NEMA 5-15P, 240 Volts.</p> <p>Dimensions: 18 1/2"Dx17Wx10H inches.</p> <p>Operating Weight: 77 pounds.</p> <p>Shipping Weight: Unit, 50 lb., Tube, 5 lb., Transformer 35 lb.</p> <p>Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details.</p> <p>Third Order IMD at Rated Output: -34 dB at 1500 Watts output.</p>	<p>Input: Circuit type: Pi-network, slug tuned coils. Maximum VSWR at resonance: 1.3:1 or less. Minimum 2:1 VSWR bandwidth: 20% of center frequency. Max. drive power permissible: 100 Watts. Typical drive for full power output: 65 Watts.</p> <p>Output: Circuit type: Pi-L. 1/2 hour continuous carrier: 1500 Watts. 30 second continuous carrier: 2500 Watts plus. 1/2 hour PEP two tone test: 2500 Watts plus. 30 second PEP two tone test: 2500 Watts plus.</p> <p>Power Supply: Circuit type: Full wave bridge, capacitor input. No load voltage: 3600 Volts. Full load voltage: 3300 Volts. Full load current: 1 Amp. Regulation: 10% typical. Transformer: 32 lb. HypersilR. Capacitors: 26 uFd total, computer grade. Maximum draw at rated output: 15 Amps. AC Input: 240 V, 50/60 Hz.</p> <p>Tubes: Type: <i>Eimac</i>* 3CX1500/8877. Continuous dissipation: 1500 Watts. Warm-up time: 180 seconds.</p> <p>Metering: Multimeter: Reads plate current, plate voltage, drive/ALC, power output (PEP Watts). Grid Meter: Reads grid current.</p> <p>ALC: Negative going, 0-20 Volts, adjustable, phono jack.</p> <p>Efficiency CW: 65%. *Efficiency SSB (envelope crest): 62%.</p> <p>MARS/WARC: Yes, set to the nearest amateur band.</p> <p>Connectors: Keying: Engages amplifier when grounded, +12 VDC. 100 mA when grounded, built-in back-pulse cancelling diode protects the exciter.</p> <p>RF input: SO-239, 50 Ohm input.</p> <p>Power: NEMA 6-15P, 240 Volts.</p> <p>Dimensions: 18 1/2"Dx17Wx10H inches.</p> <p>Operating Weight: 77 pounds.</p> <p>Shipping Weight: Unit, 50 lb., Tube, 3 lb., Transformer 35 lb.</p> <p>Frequency Coverage: Domestic model: 160, 80, 40, 30, 20, 17, 15 Meters. 10/12 Meters with modification. Must present FCC license at time of sale to obtain details.</p> <p>Third Order IMD at Rated Output: -36 dB.</p>	<p>Frequency Coverage: (US) 1.5 to 22 MHz continuous; (Export) 1.5 to 30 MHz continuous.</p> <p>Input: Circuit type: Broadband, resistor swamped. Maximum VSWR at resonance: 1.5:1. Bandwidth: Broadband. Maximum drive power permissible: 100 Watts. Typical drive for rated output: 100 Watts.</p> <p>Output: Circuit: Broadband, low pass. Typical SSB PEP voice operation: 600 Watts PEP. Typical CW operation: 500 Watts.</p> <p>Power requirement for amplifier: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp.</p> <p>Output devices: Power MOSFET (4) MRF-150.</p> <p>Metering: Amplifier-Cross-needle meter for VSWR, Forward, reflected true peak indicating wattmeter.</p> <p>ALC: Negative going 12 VDC, adjustable, RCA phono jack.</p> <p>Efficiency CW: 50%. Efficiency SSB: (envelope crest) 55%.</p> <p>MARS/WARC: Yes, continuous coverage.</p> <p>Keying: Relay closure or sinking to ground of +12 VDC at 100 mA, RCA phono jack.</p> <p>Power Supply connector: Beau multi-contact male chassis mount.</p> <p>RF Connectors: SO-239 for input and output.</p> <p>Dimensions: 12Dx9 1/2"Wx7 1/2"H inches.</p> <p>Operating Weight: 12.5 lbs.</p> <p>Shipping Weight: 18 lbs. (amp only).</p> <p>Third Order IMD at rated Output: -35 dB PEP or better.</p> <p>ALS-600PS Power Supply Specifications:</p> <p>Line Input: 120 VAC/240 VAC.</p> <p>Output: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp.</p> <p>Metering: Cross-needle for volt/amp.</p> <p>Output Cable: 6 foot prewired cable with Beau multi-contact connector to mate with ALS-600 amplifier.</p> <p>Dimensions: 12Dx9 1/2"Wx6H inches.</p> <p>Operating Weight: 32 lbs.*</p> <p>Shipping Weight: 37 lbs.*</p> <p>AC Line Connector: NEMA-5-15P.</p> <p>Note: * Total Shipping weight for ALS-600 Amplifier and ALS-600PS power supply is 57 lbs., shipped together.</p>	<p>Frequency Coverage: (US) 1.5 to 22 MHz continuous; (Export) 1.5 to 30 MHz continuous.</p> <p>Input: Circuit type: Broadband, resistor swamped. Maximum VSWR at resonance: 1.5:1. Bandwidth: Broadband. Maximum drive power permissible: 100 Watts. Typical drive for rated output: 60 Watts.</p> <p>Output: Circuit: Broadband, low pass. Typical SSB PEP voice operation: 500 Watts PEP. Typical CW operation: 400 Watts.</p> <p>Power requirement for amplifier: 14-16 VDC, 80 Amps (peak).</p> <p>Output devices: Transistor, (4) 2SC2879.</p> <p>Metering: Current meter, 0-100 Amp.</p> <p>ALC: None. Efficiency CW: 40%. Efficiency SSB: (envelope crest) 45%.</p> <p>MARS/WARC: Yes, continuous coverage.</p> <p>Keying: Relay closure or sinking to ground of +12 VDC at 100 mA, RCA phono jack.</p> <p>Power Supply connector: Beau multi-contact male chassis mount.</p> <p>Power Supply Cable: 8 foot pre-wired with Beau connector on one end; other end with 5/8 inch ring lugs, 10 gauge wire (x2), in line fuse holders, fuses included.</p> <p>RF Connectors: SO-239 for input and output.</p> <p>Dimensions: 15 1/2"Dx8 3/4"Wx3 3/4"H inches.</p> <p>Operating Weight: 7.5 lbs.</p> <p>Shipping Weight: 12 lbs.</p> <p>Third Order IMD at rated Output: -35 dB PEP or better.</p> <p>ALS-600SPS Switching Power Supply Specs:</p> <p>Line Input: 120 VAC/240 VAC.</p> <p>Output: 50 VDC, 25 Amps, +/-14 VDC, 1 Amp.</p> <p>Metering: Cross-needle for volt/amp.</p> <p>Output Cable: 6 foot prewired cable with Beau multi-contact connector to mate with ALS-600 amplifier.</p> <p>Dimensions: 14 1/2"Dx9Wx6H inches.</p> <p>Operating Weight: 10 lbs.*</p> <p>Shipping Weight: 15 lbs.*</p> <p>AC Line Connector: NEMA-5-15P.</p> <p>Note: * Total Shipping weight for ALS-600 Amplifier and ALS-600SPS power supply is 33 lbs., shipped together.</p>

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