L-PRO2S Series 100/70V Line Amplifier Modules

Pascal L-PRO2S Series – an ultra-compact power platform for 100/70V line applications, featuring direct drive, energy star compliance and integrated power supply with PFC.

**Dedicated for 100/70V line amplifiers**
The L-PRO2S Series is optimized for the specific requirements for 100/70V line applications. This is evident in the high voltage rails providing direct drive. Energy Star compliance compulsory in many tenders. Extensive protection scheme to protect against fault scenarios during system installation.

**Unmatched Efficiency**
Like the S, T and U-PRO Series, the L-PRO2S Series boasts the world’s best system efficiency, minimizing the requirement for heat sinks and cooling. The cool operation also contributes to the amplifiers’ long term reliability.

**2RU rack installation**
The minimal physical dimensions of the L-PRO2S module gives a dedicated 100/70V line amplifier solution with integrated power supply and direct drive capability that fits into a 2RU rack. Combined with the L-A2 module, it is possible to design multi-channel 100/70V systems with small external dimensions.

**Audiophile Performance**
Pascal’s proprietary UMAC™ Class-D technology delivers unequalled audiophile specifications, including the highest dynamic range and the lowest distortion performance of any comparable pro audio amplifier. This makes the L-PRO2S Series suitable for pro audio applications and for use in high-end Hi-Fi and AV products.

**Universal Mains & PFC**
Pascal’s UREC™ PFC (Power Factor Correction) power supply technology enables universal AC mains operation, eliminating the need for local market specific power regulation products and susceptibility to related reliability issues. The power supply delivers consistent, regulated power worldwide.

**Auxiliary Power & Readouts**
Auxiliary power is available for DSP or analog I/O cards. Readouts of protect/mute, temperature and clip signals are accessible for DSP/Network or IO-boards. The L-PRO2S Series features ultra low standby power consumption for EuP2013 and green energy star compliance, with an Auto Standby/Wake-up feature with selectable time settings.

**Interface compatible with S/T/U-PRO2**
The L-PRO2S Series features compatible pin interfacing and identical output voltages to the higher current capable, popular S, T and U-PRO modules; thus the front-end electronics of both the S, T, U and L-PRO2S Series are plug-and-play compatible.

**Safety Approved - EMC Compliant**
Pascal amplifier modules are safety approved and verified for EMC compliance. CB report and UL certificates are available for easy market approval.
Specifications:

L-PRO2S

<table>
<thead>
<tr>
<th>Power Ratings (1% THD @ 120V&lt;sub&gt;AC&lt;/sub&gt; and 230V&lt;sub&gt;AC&lt;/sub&gt;)</th>
<th>100 V</th>
<th>8 Ω</th>
<th>4 Ω</th>
<th>2.7 Ω</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-PRO2S Output power channel 1</td>
<td>200 W</td>
<td>400 W</td>
<td>800 W</td>
<td>1200 W</td>
</tr>
<tr>
<td>L-PRO2S Output power channel 2</td>
<td>200 W</td>
<td>400 W</td>
<td>800 W</td>
<td>1200 W</td>
</tr>
<tr>
<td>L-PRO2S Output power BTL mode</td>
<td>1500 W</td>
<td>1500 W</td>
<td>2500 W*</td>
<td>N/A</td>
</tr>
<tr>
<td>L-A2 Output power channel 1</td>
<td>200 W</td>
<td>400 W</td>
<td>800 W</td>
<td>1200 W</td>
</tr>
<tr>
<td>L-A2 Output power channel 2</td>
<td>200 W</td>
<td>400 W</td>
<td>800 W</td>
<td>1200 W</td>
</tr>
<tr>
<td>L-A2 Output power BTL mode</td>
<td>1500 W</td>
<td>1500 W</td>
<td>2500 W*</td>
<td>N/A</td>
</tr>
</tbody>
</table>

* Dynamic headroom power

Output Circuitry: UMAC™ Class D - full bandwith PWM modulator with ultra low distortion

Output Voltage: 85 V<sub>p</sub>/ 170 V<sub>pp</sub> (unloaded) / Bridged 170 V<sub>p</sub> / 340 V<sub>pp</sub> (unloaded)

Amplifier Gain: 28.2 dB / 34.2 dB bridge mode

Signal To Noise-Ratio: > 119 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)

THD+N (typical): < 0.05 % (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)

Frequency Response: 20 Hz - 20 kHz (+/-0.25 dB (8 Ω load, 3 dB below rated power)

Damping Factor: L-PRO2S: > 350, each channel (8 Ω load, 1 kHz and below)

Protection Circuits: Short circuit protection, DC protection, under voltage protection, temperature protection, overload protection

Readouts & Control options: Protect/Disable (mute), Temperature, Clip, Voltage, Auto Standby/Wake-up (3 timings)

Power Supply: UREC™ universal mains switch mode power supply with Power Factor Correction (PFC) and integral standby converter

Operation Voltage: Universal Mains, 85-265V

SMPS RMS Power Limit: L-PRO2S: 1500 W (230V<sub>AC</sub>, 120V<sub>AC</sub>) / 1300W (100V<sub>AC</sub>) / L-A2: None

Aux. Power for DSP: ±15 V, ±7.5 V, maximum total 8.3 watt available (L-PRO2S only)

Standby Consumption: < 0.25 W (Green Energy Star & ErP 1275/2008/EC compliant)

Dimensions: L-PRO2S: 55 x 80 x 215 mm / L-A2: 51 x 80 x 100 mm

Weight: L-PRO2S: 970 g (2.14 lbs) / L-A2: 330 g (0.73 lbs)

All specifications are typical values