Pascal U-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 U-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-PRO Series, the U-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.

**Fit in 1RU ¼ size rack**
With a width and height of only 38 x 70 mm (1.5 x 2.8 in), the U-PRO2S module is only solution on the market with integrated power supply and direct drive capability, which can fit in a 1RU ¼ size rack. This eliminates the cumbersome external power supplies seen with other similar sized 100/70V line amplifiers.

**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 U-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.

**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 U-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.

**Interface compatible with S/T-PRO2**
The U-PRO2S Series features compatible pin interfac- ing and identical output voltages to the higher current capable, popular S-PRO and T-PRO modules; thus the front-end electronics of both the S-PRO, T-PRO and U-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:

### Power Ratings (RMS @ 1% THD @ 230Vac)

<table>
<thead>
<tr>
<th>Model</th>
<th>Output power per channel</th>
<th>Output power per channel</th>
<th>Output power bridge mode</th>
<th>Output power bridge mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-PRO2S</td>
<td>N/A</td>
<td>2 x 280 W*</td>
<td>280 W</td>
<td>280 W</td>
</tr>
<tr>
<td>U-PRO2SD</td>
<td>N/A</td>
<td>2 x 140 W*</td>
<td>140 W</td>
<td>140 W</td>
</tr>
</tbody>
</table>

* System limited by SMPS RMS Power Limit

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

### Output Voltage
- 70 $V_p$ / 140 $V_{pp}$ (unloaded) / Bridged 140 $V_p$ / 280 $V_{pp}$ (unloaded)

### Amplifier Gain
- 26 dB / 32 dB bridge mode

### Signal To Noise-Ratio
- > 119 dB (A-weighted, 20 Hz - 20 kHz, 8 $\Omega$ load)

### THD+N (typical)
- < 0.05 % (20 Hz - 20 kHz, 8 $\Omega$ load, 3 dB below rated power)

### Frequency Response
- 20 Hz - 20 kHz (+/-0.25 dB (8 $\Omega$ load, 3 dB below rated power)

### Damping Factor
- U-PRO2S: > 350, each channel / U-PRO2SD: > 225, each channel (8 $\Omega$ 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
- U-PRO2S: 280 W / U-PRO2SD: 140 W

### Aux. Power for DSP
- ±15 V, +7.5 V, maximum total 9 watt available

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

### Dimensions
- 38 x 70 x 180 mm / 1.5 x 2.5 x 7.0 in

### Weight
- U-PRO2S: 238 g / 0.53 lbs - U-PRO2SD: 220 g / 0.49 lbs

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All specifications are typical values