

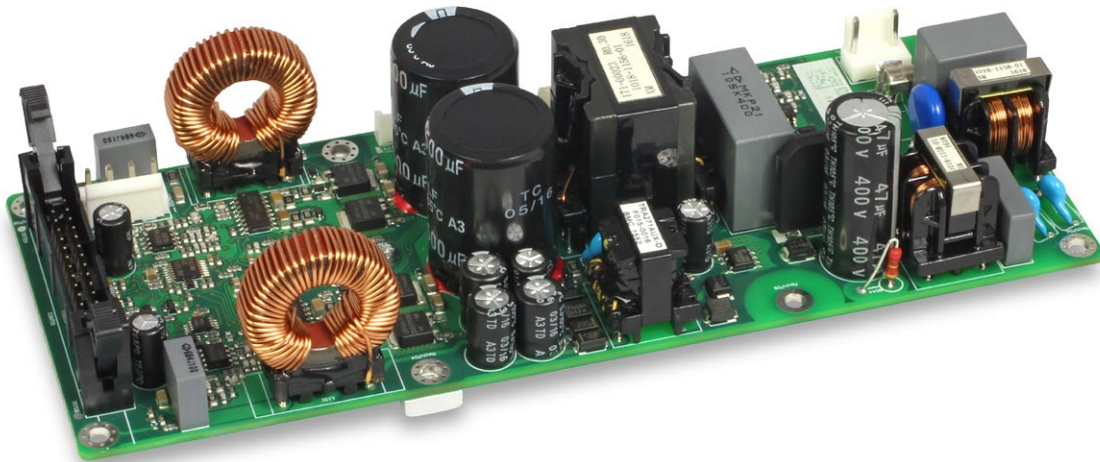
U-PRO2S 100/70V Line Amplifier Modules



U-PRO2S
2 x 280 W Lo-Z
280 W Hi-Z direct drive



U-PRO2SD
2 x 140 W Lo-Z
140 W Hi-Z direct drive



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.

100/70V

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.



Interface compatible with S/T-PRO2

The U-PRO2S Series features compatible pin interfacing 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.



Universal Mains & PFC

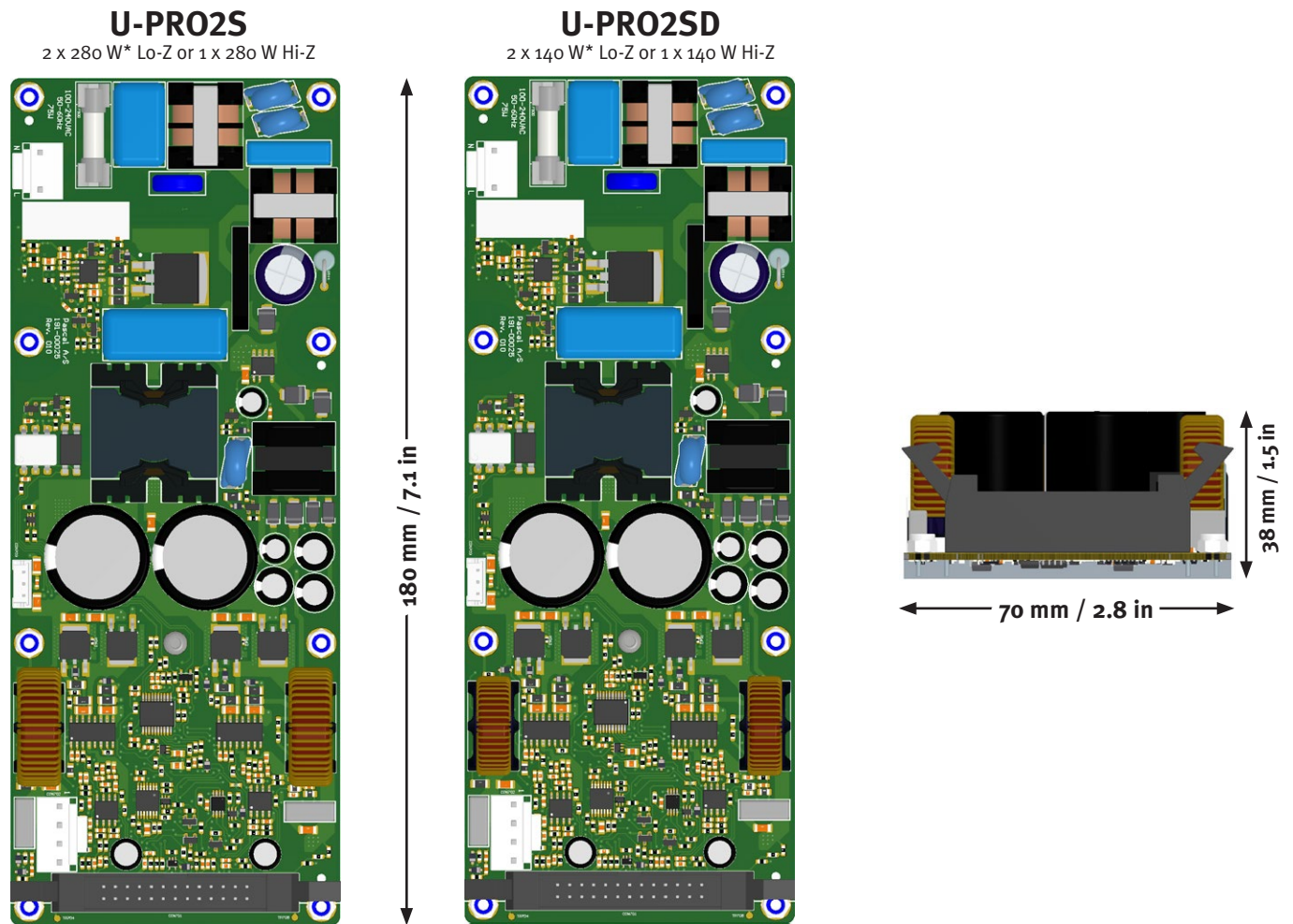
Pascal's URECTM PFC (Power Factor Correction) power supply technology enables universal AC mains operation, eliminating the need for local market specific power regulation products and susceptibility to related reliability issues. The power supply delivers consistent, regulated power worldwide.



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)

		100/70 V	8 Ω	4 Ω
U-PRO2S	Output power per channel	N/A	2 x 280 W*	2 x 280 W*
	Output power bridge mode	280 W	280 W	280 W
U-PRO2SD	Output power per channel	N/A	2 x 140 W*	2 x 140 W*
	Output power bridge mode	140 W	140 W	140 W

* System limited by SMPS RMS Power Limit

Output Circuitry	UMAC™ Class D - full bandwidth 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 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/-0.25 dB (8 Ω load, 3 dB below rated power)
Damping Factor	U-PRO2S: > 350, each channel / U-PRO2SD: > 225, 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	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

All specifications are typical values