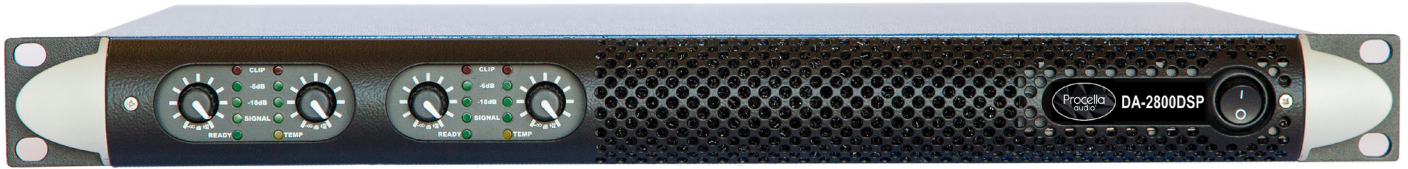




DA2800-DSP

2,800W Four-Channel Power Amplifier

Technical Specifications



- 360W x 4 channels at 8 ohms
- 700W x 4 channels at 4 ohms
- Bridgeable to 1,400W x 2 channels at 8 ohms
- Selectable EQ presets optimized for P15-FP and P18 subwoofers
- Selectable PEQ and DSP crossovers for bi-amplification of the P860, P815 and P610 loudspeakers
- 24 bit/48KHz AD/DA conversion, 26-bit processing
- Ethernet control interface
- Fully protected against DC, thermal overload and short circuits
- Two year warranty
- Neutrik® XLR balanced inputs and Speakon® speaker wire output connectors
- Recessed front panel level controls and LED indicators
- CE, CSA, KC and CCC certified
- High efficiency Green Audio Power™ design
- Internally switchable power supply for either 115V or 230V operation
- Compact and lightweight -
1 RU high
7.4 Kg (16.3 lbs.)

Defining the standard in amplification for Procella loudspeakers and subwoofers, the DA2800-DSP gives users a powerful platform to enable uncompromised performance with any Procella Audio speaker system.

This high-efficiency class-D amplifier has extraordinary sound quality with enormous power reserves. As you would fully expect from Procella, the DA2800-DSP's sound quality is utterly transparent, with an extremely wide dynamic range and robust low-frequency impact.

Four channels of amplification deliver a solid 360W each at 8 ohms, or 700W each at 4 ohms, with the additional ability to produce 1,400W at 8 ohms when two channels are bridged (required for the P815 and the P18 subwoofer).

In channel pairs, users have the choice of four DSP EQ presets to either optimize the response of the P15-FP and P18 Procella subwoofers or to provide the required PEQ and DSP crossovers for the P860, P815 and

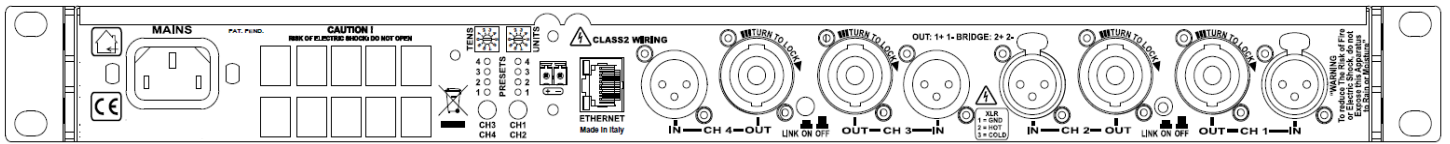
P610 loudspeakers. The V18 and V21 subwoofers are best paired with the Procella DA5000-DSP amp.

Users can choose from standard EQ preset configurations, or, on a custom factory order basis, specify any combination of presets.

Multiple speakers and/or subwoofers can be driven by a single DA2800-DSP, depending on system requirements. See the user guide for each speaker model's amplifier requirements and options.

In a 1U rack mount height, the compact DA2800-DSP packs a robust output capability in a very efficient space. Its four channels of high output amplification makes for very efficient use of rack space, especially in high channel count immersive audio systems. The DA2800-DSP weighs just over 16 pounds.

For the ultimate Procella experience, the DA2800-DSP is the ideal amplifier choice!



Number of Channels	Four	Ethernet (back panel)	RJ45 connector, rotary address switches
Power Output (EIAJ per channel, 4 channels)		Network	Presets can be managed and uploaded over network
8 ohms	360 Watts	Delay	up to 10 ms for each channel
4 ohms	700 Watts	Front Panel Indicators	
Bridged Power Output (2 channels bridged)		Input LEDs: (each channel)	3 green (signal, -18dB, -6dB) 1 red (clip)
8 ohms	1,400 Watts	Ready/Temp. LEDs:	1 white (ready) 1 yellow (thermal protection on)
Inputs	Balanced Neutrik XLR female connectors (4)	Front Panel Controls	
Outputs	Neutrik Speakon NL4MD connectors (4)	Level	One per channel, stepped
Frequency Response	10 Hz - 30 KHz (+/-3dB), for 1W @ 8 ohms	Power	Rocker On/Off switch
Signal to Noise	>111 dBA 20-20KHz, A weighted	Back Panel Controls	
THD+N	< 0.05% from 0.1W to full power (<.01% typical)	Presets	Preset selection switches and indicators
SMPTE IMD	< 0.05% from 0.1W to full power (<.01 typical)	Input Link	Feeds one input to two channels (Ch.1 + Ch.2 or Ch.3 + Ch.4)
DIM100 IMD	<0.02% from 0.1W to full power (<.005 typical)	Power Supply	Switch mode 115V / 230V, internally selectable; IEC connector
Max. Output Voltage	85V peak	Power Consumption	
Max. Output Current	60A peak	Idle	115V: 64W / 0.6A 230V: 62W / 0.51A
Slew Rate	40V/msecond, input filter bypassed	1/8 max output power	115V: 580W 7.48A 230V: 580W / 3.74A
Damping Factor	> 5000 @ 100 Hz	1/4 max output power	115V: 1,066W / 13.04A 230V: 1,066W / 6.52A
Crosstalk	<70 dB @ 1 KHz	BTU (1/8 full power)	510W
Input Impedance	10 Kohms, balanced	In The Box	User manual, Power cord, Parallel cable, 4x Speakon connectors
Input Sensitivity	1.4V / 5.14 dBu	Dimensions HxWxD	1.75" x 19" x 14.1" 44.5 x 483 x 358mm
Gain	32 dB	Shipping Carton HxWxD	3.5" x 22" x 18.1" 90 x 560 x 460mm
Certifications	CE, CSA, KC, CCC certified	Net Weight	16.3 lbs. / 7.4 Kg
Cooling	Variable speed fan, temperature controlled, airflow front to rear	Shipping Weight	19.6 lbs. / 8.9 Kg
DSP Presets	Two banks of four selectable pre-programmed presets with LEDs (back panel)		
Bank 1:	Channels 1 and 2		
Bank 2:	Channels 3 and 4		