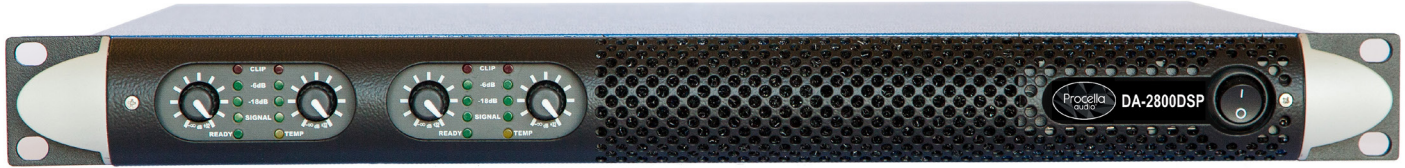




DA2800-DSP

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 biamplication 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

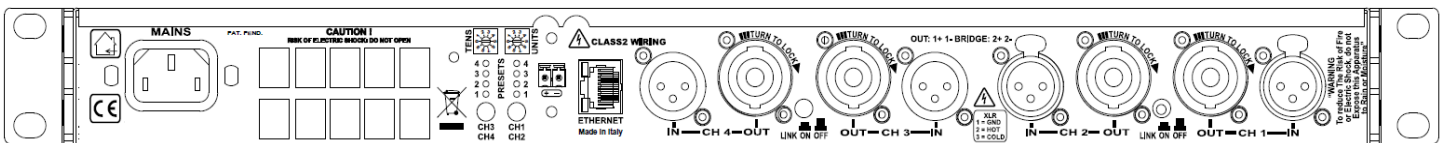
P610 loudspeakers. The V18 and V21 subwoofers are best paired with the Procella DA5000-DSP amp.

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