

Amplifier

SA30:2

High performances class D amplifier

2 bridgeable channels
2 x 2600 W in 4 Ω

Features

High audio quality
Performance and power efficiency
Protection circuits for reliability
Control software

Applications

High quality sound reproduction
High power amplification
Large scale APG systems

Specifications

Universal switch mode power supply with PFC (Power Factor Correction)
EIAJ Test Standard, 1 kHz, 1% THD
Power efficiency >85%
Fixed switching frequency

RS485 serial communication port
Optional Ethernet/AES3 interface

The SA30:2 is a 2 channel fixed switching frequency class D power amplifier. Two bridgeable channels allow all sorts of configurations of cabling depending on speakers and impedance load.

Precise gain and sensitivity setting is obtained via internal digital gain control.

The SA30:2 delivers high power and sonic quality thanks to a careful design of all its components. The state-of-the-art switch-mode power technology allows high output power with superior efficiency.

The SA30:2 has a very high level of reliability thanks to its numerous protections against clipping and high voltages or current. Its functional parameters, mains voltage and current draw, are monitored and saved. The temperature is carefully controlled by variable-speed forced-air cooling.

The SA30:2 is lighter than most amplifiers and fits in only one rack unit to ease transport and handling. The device can be configured via its front panel LCD screen, and via PC connexion thanks to its RS485 port.



Amplifier SA30:2

The SA30:2 is a 2-channels amplifier for high power applications. It uses the same internal technology than the SA20:2 but is more powerful, and offers compatible performance. Its characteristics are high dynamic and power capacities, combined with a sturdy and ergonomic design that perfectly meets the requirements of live events and shows, in fixed installation as well as in touring.

Thanks to its performance in terms of power, it naturally suits APG high power systems such as Matrix Array, Uniline, and "TB" series subwoofers.

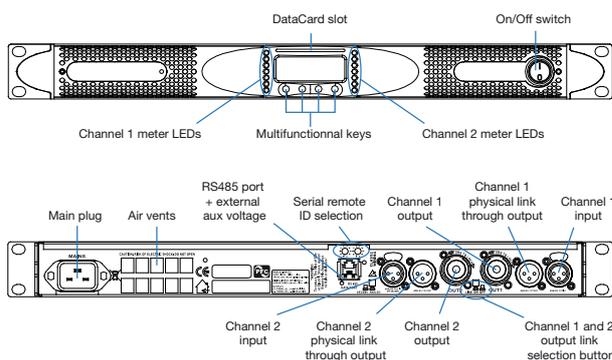
Although the SA30:2 amplifier is optimized for a 4 to 8 Ω load, operation under 2 Ω load is possible, provided there is a sufficient headroom. The bridged mode allows high-voltage operation into 4 to 16 Ω loads.

The SA30:2 must be used according to APG-recommended combinations of speakers and processors.

APG

SA30:2

Technical Specifications



General

SA30:2

Number of channels	2				
Output power	stereo mode		mono-bridged mode		
EIAJ Test Standard, 1 kHz, 1% THD	2 Ω/ch	4 Ω/ch	8 Ω/ch	4 Ω	8 Ω
	2x2800 W	2x2600 W	2x1400 W	1x5600 W	1x5200 W
Max output voltage / current	165 V _{peak} / 102 A _{peak}				

AC Mains Power

Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)				
Operating voltage	100-240 V ±10%, 50/60 Hz				
Power factor	cos (φ) >0.95 @ >500 W				
Consumption / current draw	@ 230 V		@ 115 V		
Idle	75 W	1.3 A	64 W	1.12 A	
1/8 of max output power @ 4 Ω	813 W	4 A	813 W	8 A	
1/4 of max output power @ 4 Ω	1625 W	7.4 A	1625 W	14.8 A	

Audio

Gain, selectable	26 dB	29 dB	32 dB	35 dB	
Gate	-52 dBu	-55 dBu	-58 dBu	-61 dBu	
Frequency response	20 Hz - 20 kHz (1 W @ 8 Ω, ±0.5 dB)				
S/N ratio (amplifier section)	>106 dBA (20 Hz - 20 kHz, A weighted)				
Crosstalk separation	> 70 dB @ 1 kHz				
Input Impedance	10 kΩ balanced				
THD+N/SMPTE IMD/DIM 100 IMD	<0.3% from 1 W to full power (typically <0.05%)				
Slew rate	50 V/μs @ 8 Ω, input filter bypassed				
Damping factor @ 8 Ω	>5000 @ 20-200 Hz				

Front Panel

Indicators	7 meter LEDs: 5 x green, 1 x yellow, 1 x red, top yellow and red show alarm with protect description on LCD panel
Controls	4 pushbuttons, function depending on user menu; mains switch
Network data port AESOP incl. AES3	2 x RJ45 with activity LEDs

Rear Panel

Audio signal input connectors	Analog: 2 x balanced Neutrik® XLR female; AES3: use channel 2 XLR
Audio signal output connectors	Analog: 2 x balanced Neutrik® XLR male
Loudspeaker output connectors	2 x Neutrik® Speakon NL4MD
Network data port	RS485 1 x RJ45 with 2 recessed rotary encoders for ID selection
Aux voltage	1 x 2-pin Phoenix P. 3.81mm
Controls	1 x link switch, linking analog inputs 1 and 2; AES3/analog input switch

Construction

Dimensions (H, W, D)	1.8" x 19" x 15" (44.5 x 483 x 380 mm)
Weight	17.7 lb (8 kg)

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