



AG series Digital Amplifier



AQ series Digital Amplifier



DG series Digital Amplifier with DSP

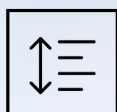


DG series Digital Amplifier with DANTE

Professional Digital Amplifier



Remote Control



1U Height Compact



Multistage Power Supply



High Power Utilization



Wide Power Range



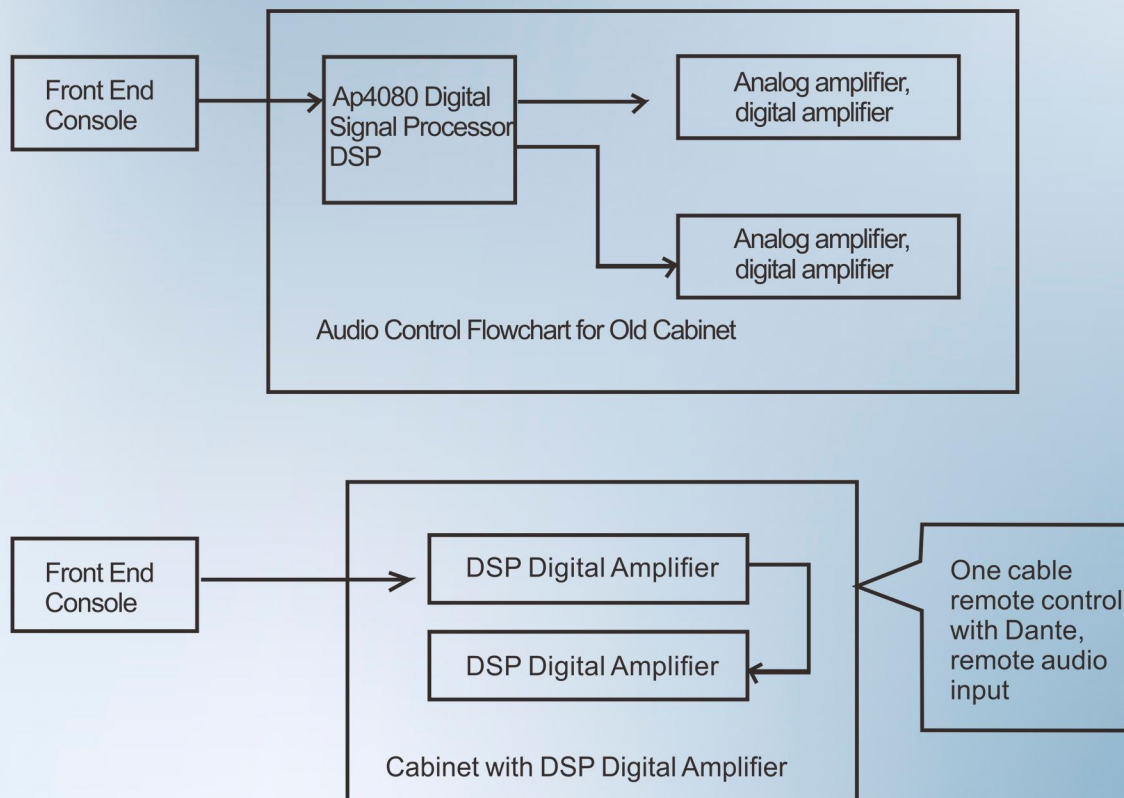
New DSP Algorithm



DSP Low Heat Long Life

R&D Background

The cabinet of the audio control system used to adopt one or more professional digital audio processors to process signals. Most of the signals are two or four inputs and the general control mode of multiple outputs. In use, the whole cabinet cannot be used in case of a processor failure. If there is no backup emergency equipment on site, the meeting or performance will be rescheduled. The DSP power amplifier refers to the use of a DSP chip, through digital signal processing, algorithm optimization, remote intelligent management of audio parameters. Each amplifier is a combination of a digital signal processor and amplifier. In this way, the intermediate master digital processor is removed, and each amplifier is directly controlled by the master console, which reduces the failure rate of the system. Each DSP power amplifier can be controlled remotely or in parallel with a single network cable. DSP with digital audio signal transmission can also transmit digital audio signal at the same time.



Product Family



AG series Digital Amplifier



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DG series Digital Amplifier with DSP



DG series Digital Amplifier with DANTE

Innovations

1. 1U height to reduce cabinet mounting height.
2. The power amplifier part is powered by multi-stage voltage, which can effectively reduce the heat of the amplifier and improve the efficiency of power supply.
3. DSP uses the latest algorithm, plus years of experience, to optimize the algorithm in multiple ways. The bottom algorithm uses C and simplified instruction mixing, which has fast operation speed, high register efficiency, low heat output and can increase the lifetime of DSP by 3 to 5 years.
4. Digital amplifier with DSP can be controlled remotely, multi-unit network, DANTE module can also be used to transmit digital audio signal remotely, and special module can also be used for automatic backup.
5. Internal DSP, equivalent to an external digital signal processor, can independently adjust, volume, EQ, pressure limit, delay, phase.
6. Power (8ohm) from 300W to 2000W, 4ohm heavy load bridging 10000W, wide usage range, can be operated with line array.

Digital Amplifier | AG SERIES



Introduction:

AAG series digital power amplifier is a new generation flagship product of our company. This series of amplifiers adopts the company's self-developed multi-loop control technology, which has excellent parameters, especially for power amplification technology under low impedance and high current working conditions, so that the amplifier has more than 95% efficiency and excellent stability. The switching power supply adopts active PFC and soft switching technology, and is optimized for the audio power amplifier, which can adapt to the harsh power grid environment and provide continuous surging power for the amplifier.

AG series amplifiers feature high reliability, sufficient power, outstanding sound, and strong adaptability. There are 2-channel and 4-channel for this series, stable and reliable 2Ω drive capability, perfect for high-power, high-quality speaker systems.

Model		AG2065	AG2100	AG2150	AG2200	AG2300
Rated power	8Ω/stereo	2×650W	2×1000W	2×1500W	2×2000W	2×2500W
	4Ω/stereo	2×1100W	2×1700W	2×2550W	2×3400W	2×4250W
	2Ω/stereo	2×1870W	2×2890W	2×3570W	2×4760W	2×7220W
	16Ω/ bridge	1×1300W	1×2000W	1×3000W	1×4000W	1×5000W
	8Ω/ bridge	1×2200W	1×3400W	1×5100W	1×6800W	1×8500W
	4Ω/ bridge	1×3740W	1×5780W	1×7140W	1×9520W	1×14440W
RMS output voltage (THD=1%,1kHz)		72.1V	89.4V	109.5V	126.5V	141.4V
Up slope (1kHz, bypass low-pass filter)		50V/us				
Input sensitivity (rated output power, 1kHz)		Optional: 41dB, 38dB, 35dB, 32dB				
THD+N (10% rated output power, typical value)		0.01%				
IMD-SMPTE (10% rated output power, typical value)		0.01%				
DIM30 (10% rated output power, typical value)		0.01%				
Crosstalk suppression (below rated power, 20 Hz~1 kHz)		≥90 dB				
Frequency response (10% rated output power, 8Ω 20Hz-20kHz)		±0.2dB				
Input impedance		20KΩ(bal), 10KΩ(unbal)				
Damping factor (8Ω 20Hz-200Hz)		≥300				
SNR (A weighted, 20Hz~20kHz)		≥105dB				
Power supply		90~260VAC, 50~60 Hz				
Protection		Power supply under-voltage protection, power amplifier output DC protection, overheat protection, temperature power control, overload power control				
Mount height		1U				1U
Dimension (WxHxD)		483×44×370				483×44×465
Net weight		9kg				12kg

The power is measured at 1%THD for a practical 20ms pulse of 1 kHz sinusoidal wave.

Digital Amplifier | AG SERIES



Introduction:

AAG series digital power amplifier is a new generation flagship product of our company. This series of amplifiers adopts the company's self-developed multi-loop control technology, which has excellent parameters, especially for power amplification technology under low impedance and high current working conditions, so that the amplifier has more than 95% efficiency and excellent stability. The switching power supply adopts active PFC and soft switching technology, and is optimized for the audio power amplifier, which can adapt to the harsh power grid environment and provide continuous surging power for the amplifier.

AG series amplifiers feature high reliability, sufficient power, outstanding sound, and strong adaptability. There are 2-channel and 4-channel for this series, stable and reliable 2Ω drive capability, perfect for high-power, high-quality speaker systems.

Model		AG4065	AG4100	AG4150	AG4200
Rated power	8Ω/stereo	4×650W	4×1000W	4×1500W	4×2000W
	4Ω/stereo	4×1100W	4×1700W	4×2550W	4×3400W
	2Ω/stereo	4×1870W	4×2890W	4×3570W	4×4760W
	16Ω/ bridge	2×1300W	2×2000W	2×3000W	2×4000W
	8Ω/ bridge	2×2200W	2×3400W	2×5100W	2×6800W
	4Ω/ bridge	2×3740W	2×5780W	2×7140W	2×9520W
RMS output voltage (THD=1%,1kHz)		72.1V	89.4V	109.5V	126.5V
Up slope (1kHz, bypass low-pass filter)		50V/us		50V/us	
Input sensitivity (rated output power, 1kHz)		Optional: 38dB, 35dB, 32dB, 29dB		Optional: 41dB, 38dB, 35dB, 32dB	
THD+N (10% rated output power, typical value)		0.01%			
IMD-SMPTE (10% rated output power, typical value)		0.01%			
DIM30 (10% rated output power, typical value)		0.01%			
Crosstalk suppression (below rated power, 20 Hz~1 kHz)		≥90dB			
Frequency response (10% rated output power, 8Ω 20Hz-20kHz)		±0.2dB			
Input impedance		20KΩ(bal), 10KΩ(unbal)			
Damping factor (8Ω 20Hz-200Hz)		≥300			
SNR (A weighted, 20Hz~20kHz)		≥105dB			
Power supply		90~260VAC, 50~60 Hz			
Protection		Power supply under-voltage protection, power amplifier output DC protection, overheat protection, temperature power control, overload power control			
Mount height		1U			1U
Dimension (WxHxD)		483×44×370			483×44×465
Net weight		9kg			12kg

The power is measured at 1%THD for a practical 20ms pulse of 1 kHz sinusoidal wave.

Digital Amplifier | AQ SERIES



2-ch

4-ch

Introduction:

AQ series is a digital amplifier product for high-end conference systems, entertainment and small mobile shows. This series of products has perfect protection function, high reliability, stability and excellent acoustic characteristics. It has PFC and harmonic soft-switching power supply technology, which provides continuous and stable surging power for power amplifier in 90-260VAC voltage range.

Features:

- >Efficient, energy-saving and operation cost saving;
- >Quiet Temperature-controlled fan.
- >Compact, lightweight and stable structure;
- >Compliance with safety and electromagnetic compatibility standards;
- >Active PFC, power factor up to 0.99;
- >Strong output power, stable driving 2 ohm load;
- >The protection function is perfect;

Model		AQ2250(2-ch)	AQ2450(2-ch)	AQ4250(2-ch)	AQ4450(2-ch)
Rated power	8Ω/ stereo	2×250W	2×450W	4×250W	4×450W
	4Ω/ stereo	2×425W	2×765W	4×425W	4×765W
	2Ω/ stereo	2×725W	2×1300W	4×725W	4×1300W
	16Ω/bridge	1×500W	1×900W	2×500W	2×900W
	8Ω/bridge	1×850W	1×1530W	2×850W	2×1530W
	4Ω/bridge	1×1450W	1×2600W	2×1450W	2×2600W
RMS output voltage (THD=1%,1kHz)		44.7V	60.0V	44.7V	60.0V
Up slope (1kHz, bypass low-pass filter)		50V/us			
Input sensitivity (rated output power, 1kHz)		Optional:35dB 32dB 29dB 26dB			
THD+N (10% rated output power, typical value)		0.02%			
IMD-SMPTE (10% rated output power, typical value)		0.02%			
DIM30 (10% rated output power, typical value)		0.02%			
Crosstalk suppression (below rated power, 20 Hz~1 kHz)		≥90 dB			
Frequency response (10% rated output power, 8Ω 20Hz-20kHz)		±0.2dB			
Input impedance		20KΩ(bal), 10KΩ(unbal)			
Damping factor (8Ω 20Hz-200Hz)		≥300			
SNR (A weighted, 20Hz~20kHz)		≥104dB		≥100dB	
Power supply		90~260VAC, 50~60 Hz			
Protection		Power supply under-voltage protection, power amplifier output DC protection, overheat protection, temperature power control, overload power control			
Mount height		1U	1U	1U	1U
Dimension (WxHxD)		483×45×376	483×45×376	483×44×370	483×45×376
Net weight		7.1kg	7.3kg	7.8kg	8kg
Package size		565×125×510	565×125×510	565×125×510	565×125×510
Gross weight		8.6kg	8.8kg	9.3kg	9.5kg

DG series Digital Amplifier with DSP | *DG SERIES*



Introduction:

DG series digital power amplifier is our flagship product of the new generation. This series of amplifiers uses the multi-loop control technology developed by the company independently, and has excellent technical specifications, especially for power amplification technology under low impedance and high current operation, which makes the amplifier more than 95% efficient and excellent stability. Switching power supply uses active PFC and soft switch technology, and optimizes the design of audio power amplifier, which can adapt to the harsh power network environment and provide continuous surging power for power amplifier.

DG series digital amplifier is equipped with high performance audio dedicated DSP, high dynamic and high precision AD/DA converter and 3.3 inch high definition LCD display. The amplifier can be monitored through RS-485 and LCD panels. It can receive analog audio and AES digital audio signals.

Model		DG2065	DG2100	DG2150	DG2200	DG2300
Rated power	8Ω/stereo	2×650W	2×1000W	2×1500W	2×2000W	2×2500W
	4Ω/stereo	2×1100W	2×1700W	2×2550W	2×3400W	2×4250W
	2Ω/stereo	2×1870W	2×2890W	2×3570W	2×4760W	2×5950W
	16Ω/ bridge	1×1300W	1×2000W	1×3000W	1×4000W	1×5000W
	8Ω/ bridge	1×2200W	1×3400W	1×5100W	1×6800W	1×8500W
	4Ω/ bridge	1×3740W	1×5780W	1×7140W	1×9520W	1×11900W
RMS output voltage (THD=1%,1kHz)		72.1V	89.4V	109.5V	126.5V	141.4V
Default gain (rated output power, 1 kHz)		21dB	23dB	25dB	26dB	27dB
Gain range (rated output power, 1 kHz)		19dB~37dB	21dB~39dB	23dB~41dB	24dB~42dB	26dB~43dB
Max. input level		8.7Vrms(+21dBu)(default)				
THD+N (10% rated output power, typical value)		0.05%				
DIM30 (10% rated output power, typical value)		0.05%				
Crosstalk suppression (below rated power, 20 Hz~1 kHz)		≥90 dB				
Frequency response (10% rated output power, 8Ω 20Hz~20kHz)		±0.2dB				
Input impedance		20KΩ(bal), 10KΩ(unbal)				
Damping factor (8Ω 20Hz~200Hz)		≥300				
SNR (A weighted, 20Hz~20kHz)		≥105dB(default)				
Power supply		90~260VAC, 50~60 Hz				
Protection		Power supply under-voltage protection, power amplifier output DC protection, overheat protection, temperature power control, overload power control				
Mount height		483x45x376	483x45x376	483×45×376	483×45×376	483×45×465
Dimension (WxHxD)		7.7kg	8.1kg	9kg	9.3kg	12.3kg
Package size		565x125x510	565x125x510	565×125×510	65×125×510	585×125×585
Gross weight		9.2kg	9.6kg	10.5kg	10.8kg	14.9kg

DG series Digital Amplifier with DSP | *DG SERIES*



Model		DG4065	DG4100	DG4150	DG4200
Rated power	8Ω/stereo	4× 650W	4× 1000W	4× 1500W	4× 2000W
	4Ω/stereo	4× 1100W	4× 1700W	4× 2550W	4× 3400W
	2Ω/stereo	4× 1870W	4× 2890W	4× 3570W	4× 4760W
	16Ω/ bridge	2× 1300W	2× 2000W	2× 3000W	2× 4000W
	8Ω/ bridge	2× 2200W	2× 3400W	2× 5100W	2× 6800W
	4Ω/ bridge	2× 3740W	2× 5780W	2× 7140W	2× 9250W
RMS output voltage (THD=1%,1kHz)		72.1V	89.4V	109.5V	126.5V
Default gain (rated output power, 1 kHz)		21dB	23dB	25dB	26dB
Gain range (rated output power, 1 kHz)		19dB~37dB	21dB~39dB	23dB~41dB	24dB~42dB
Max. input level		8.7Vrms(+21dBu)(default)			
THD+N (10% rated output power, typical value)		0.05%			
DIM30 (10% rated output power, typical value)		0.05%			
Crosstalk suppression (below rated power, 20 Hz~1 kHz)		≥90 dB			
Frequency response (10% rated output power, 8Ω 20Hz-20kHz)		±0.2dB			
Input impedance		20KΩ(bal), 10KΩ(unbal)			
Damping factor (8Ω 20Hz-200Hz)		≥300			
SNR (A weighted, 20Hz~20kHz)		≥105dB(default)			
Power supply		90~260VAC, 50~60 Hz			
Protection		Power supply under-voltage protection,power amplifier output DC protection, overheat protection, temperature power control, overload power control			
Mount height		483x45x376	483x45x376	483×45×465	483×45×465
Dimension (WxHxD)		9.1kg	9.1kg	12.2kg	12.2kg
Package size		565x125x510	565x125x510	585×125×585	58×125×585
Gross weight		10.6kg	10.6kg	14.8kg	14.8kg

Digital Amplifier with DANTE | *DG SERIES*



Introduction:

DG series digital power amplifier is our flagship product of the new generation. This series of amplifiers uses the multi-loop control technology developed by the company independently, and has excellent technical specifications, especially for power amplification technology under low impedance and high current operation, which makes the amplifier more than 95% efficient and excellent stability. Switching power supply uses active PFC and soft switch technology, and optimizes the design of audio power amplifier, which can adapt to the harsh power network environment and provide continuous surging power for power amplifier.

DG series digital amplifier is equipped with high performance audio dedicated DSP, high dynamic and high precision AD/DA converter and 3.3 inch high definition LCD display. The amplifier can be monitored through RS-485 and LCD panels. It can receive analog audio and AES digital audio signals.

Model		DG2065D	DG2100D	DG2150D	DG2200D	DG2300D
Rated power	8 Ω /stereo	2 \times 650W	2 \times 1000W	2 \times 1500W	2 \times 2000W	2 \times 2500W
	4 Ω /stereo	2 \times 1100W	2 \times 1700W	2 \times 2550W	2 \times 3400W	2 \times 4250W
	2 Ω /stereo	2 \times 1870W	2 \times 2890W	2 \times 3570W	2 \times 4760W	2 \times 5950W
	16 Ω / bridge	1 \times 1300W	1 \times 2000W	1 \times 3000W	1 \times 4000W	1 \times 5000W
	8 Ω / bridge	1 \times 2200W	1 \times 3400W	1 \times 5100W	1 \times 6800W	1 \times 8500W
	4 Ω / bridge	1 \times 3740W	1 \times 5780W	1 \times 7140W	1 \times 9520W	1 \times 11900W
RMS output voltage (THD=1%,1kHz)		72.1V	89.4V	109.5V	126.5V	141.4V
Default gain (rated output power, 1 kHz)		21dB	23dB	25dB	26dB	27dB
Gain range (rated output power, 1 kHz)		19dB~37dB	21dB~39dB	23dB~41dB	24dB~42dB	26dB~43dB
Max. input level		8.7Vrms(+21dBu)(default)				
THD+N (10% rated output power, typical value)		0.05%				
DIM30 (10% rated output power, typical value)		0.05%				
Crosstalk suppression (below rated power, 20 Hz~1 kHz)		\geq 90 dB				
Frequency response (10% rated output power, 8 Ω 20Hz-20kHz)		\pm 0.2dB				
Input impedance		20K Ω (bal), 10K Ω (unbal)				
Damping factor (8 Ω 20Hz-200Hz)		\geq 300				
SNR (A weighted, 20Hz~20kHz)		\geq 105dB(default)				
Power supply		90~260VAC, 50~60 Hz				
Protection		Power supply under-voltage protection, power amplifier output DC protection, overheat protection, temperature power control, overload power control				
Mount height		483x45x376	483x45x376	483 \times 45 \times 376	483 \times 45 \times 376	483 \times 45 \times 465
Dimension (WxHxD)		7.7kg	8.1kg	9kg	9.3kg	12.3kg
Package size		565x125x510	565x125x510	565 \times 125 \times 510	65 \times 125 \times 510	585 \times 125 \times 585
Gross weight		9.2kg	9.6kg	10.5kg	10.8kg	14.9kg

Digital Amplifier with DANTE | *DG SERIES*



Model		DG4065D	DG4100D	DG4150D	DG4200D
Rated power	8Ω/stereo	4×650W	4×1000W	4×1500W	4×2000W
	4Ω/stereo	4×1100W	4×1700W	4×2550W	4×3400W
	2Ω/stereo	4×1870W	4×2890W	4×3570W	4×4760W
	16Ω/ bridge	2×1300W	2×2000W	2×3000W	2×4000W
	8Ω/ bridge	2×2200W	2×3400W	2×5100W	2×6800W
	4Ω/ bridge	2×3740W	2×5780W	2×7140W	2×9250W
RMS output voltage (THD=1%,1kHz)		72.1V	89.4V	109.5V	126.5V
Default gain (rated output power, 1 kHz)		21dB	23dB	25dB	26dB
Gain range (rated output power, 1 kHz)		19dB~37dB	21dB~39dB	23dB~41dB	24dB~42dB
Max. input level		8.7Vrms(+21dBu)(default)			
THD+N (10% rated output power, typical value)		0.05%			
DIM30 (10% rated output power, typical value)		0.05%			
Crosstalk suppression (below rated power, 20 Hz~1 kHz)		≥90 dB			
Frequency response (10% rated output power, 8Ω 20Hz-20kHz)		±0.2dB			
Input impedance		20KΩ(bal), 10KΩ(unbal)			
Damping factor (8Ω 20Hz-200Hz)		≥300			
SNR (A weighted, 20Hz~20kHz)		≥105dB(default)			
Power supply		90~260VAC, 50~60 Hz			
Protection		Power supply under-voltage protection, power amplifier output DC protection, overheat protection, temperature power control, overload power control			
Mount height		483x45x376	483x45x376	483×45×465	483×45×465
Dimension (WxHxD)		9.1kg	9.1kg	12.2kg	12.2kg
Package size		565x125x510	565x125x510	585×125×585	58×125×585
Gross weight		10.6kg	10.6kg	14.8kg	14.8kg