



# SMQ500

## WaveDynamics™ quad-channel power amplifier 4 x 500W

### Highlights:

- Lightweight class-D amplifier
- Speakon compatible & terminal block output connections
- RS232 control
- Dante™/AES67 expansion port
- XLR & terminal block input & linkthrough connections
- Advanced DSP and loudspeaker management
- 2.5" LCD display with intuitive user interface
- WaveDynamics™ speaker & set configurations

### Product information:

The SMQ series are quad channel power amplifiers providing a new standard for affordable audio amplification in both fixed and mobile audio installations. Their advanced features and availability in different output powers for 350 Watt, 500 Watt, 750 Watt and 1250 Watt provide an enormous flexibility for numerous applications. The WaveDynamics™ DSP processor in combination with the 2.5" LCD display gives an unmatched user experience with intuitive functions overview for easy configuration. Acoustics can be optimized using Butterworth, Bessel and Linkwitz-Riley filters with selectable rolloff which can be configured as Low / High & Band Pass and the 7-Band equalizer which has adjustable frequencies and Q-factor. Other provided functions are delay and dynamic bass boost. These settings can be custom configured using the front panel of the amplifier, whereby access can be given on two different levels (User & Administrator) using password or USB-key protection. Loudspeaker protection is provided by an output power limiter whereby the maximum output power for every channel (in Watt) can be configured. Configuration is made simple with loudspeaker presets and full system configurations which can be selected from a library and uploaded with an USB flash drive. This ensures the best acoustical performance with a bullet-proof loudspeaker protection. Great flexibility and source compatibility is achieved via the input selection matrix combined with the XLR and terminal block signal connections. The outputs are made using Speaker and Terminal block connections. System integration is made easy using the RS-232 control port. An optional Dante™ interface is available for the WaveDynamics™ amplifiers. The installation of this network interface allows receiving and sending of low latency, high quality audio over a standard Ethernet network.

### Applications:

- Bars & Restaurants
- Education
- Hotels
- Houses of worship
- Clubs
- Events
- Corporate
- Retail



### Certification:



### Additional Inputs:



## System specifications:

RMS/AES power handling	@ 4 $\Omega$ Stereo	4 x 500 W
	@ 8 $\Omega$ Stereo	4 x 300 W
	@ 8 $\Omega$ Bridge	2 x 1000 W
Frequency	Response ( $\pm$ 3 dB)	20 Hz - 20 kHz
Signal / Noise		> 95 dB
THD+N (@ 1 kHz)		< 0.05% (1/2 Rated Power)
Crosstalk (@ 1 kHz)		> 70 dB
Technology		Class-D
Inputs	Sensitivity	-19.5 dB ~ 27 dB
	Impedance	10 k $\Omega$ balanced
	Connector	XLR & 3-pin Euro Terminal Block (3.81 mm)
Outputs	Connector	Speakon compatible & 2-pin Euro Terminal Block (5.08 mm)
Common mode rejection ratio		70 dB
Damping factor		> 200
Protection	Amplifier	DC Short circuit
		Over heating
		Over load
		Signal limiting
		Loudspeaker
	Access	User & Administrator level (Through password and USB-key protection)
Cooling		Temperature controlled fan
Operating temperature		0° ~ 40° @ 95% Humidity
Power	Supply	Switching mode
		AC Input: 100-120V/220-240V~ 50/60Hz

Note: Standard voltage and frequency of electricity varies from country to country. Please contact your local distributor to ensure suitable product variant voltage and frequency compatibility.

## Product Features:

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Dimensions	482 x 88 x 420 mm (W x H x D)
Weight	8.250 kg
Mounting	19"
Unit height	2 HE
Construction	Steel
Colours	Black