

Four 100 – Musway's new four-channel power plant



performance sounds

► We know Musway power amplifiers mainly as small DSP amplifiers. But now the brand is coming with a new series that really gets serious about power and performance.

Musway's new amplifier series is suitable for retrofitting of original systems. Connection via plug&play, the smallest housing for everywhere and usually a chic sound processor for sound design. With the new Four 100, Musway is now breaking new ground. With a little more housing size and, above all, the latest amplifier technology, Musway now wants to compete with conventional, full-fledged amplifiers. 4 x 100 watts from 220 x 150 x 45 millimeters are in the specifications. With that is

the Four 100 is just a touch larger than an A5 sheet of paper, but with the power of an analog power amplifier three times the size. Inside the housing, which is made of brushed aluminum and is as always nicely made, there is, of course, a class D circuit hidden in addition to the rather massive transformer power supply. Just that you don't see much of it. There are just 4 other components on the top of the board, apart from the low-pass coils and the two power transistors per channel. So the essential thing is on the underside, where drivers and the other components are hidden



The Musway is characterized by high-level in, cinch outputs and a decent set of filters

EMV TIP

Undisturbed radio reception

CAR & HiFi 1/2021

Musway Four 100

distribution	Audio Design, Kronau	
Hotline	07253 9465-0	
Internet	www.musway.de	
► Klang	40 %	1,2 yyyyyy
Bassfundament 8 %		1,0 yyyyyy
neutrality	8 %	1,0 yyyyyy
transparency	8 %	1,5 yyyyyy
spatiality	8 %	1,0 yyyyyy
dynamics	8 %	1,5 yyyyyy
► Labor	35 %	1,3 yyyyyy
performance	20 %	1,5 yyyyyy
damping factor 5%		0,5 yyyyyy
signal-to-noise ratio 5%		1,0 yyyyyy
Klirrfactor	5 %	1,5 yyyyyy
► practice	25 %	1,1 yyyyyy
equipment	15 %	1,0 yyyyyy
proc. Electronics 5% proc.		1,0 yyyyyy
Mechanics 5%		1,5 yyyyyy

Technical specifications

Channels	4
Power 4 ohms	120
Power 2 ohms	207
Power 1 ohm	0
Bridge power 4 ohms Bridge	414
power 2 ohms Sensitivity	0
max. mV Sensitivity min. V	220
THD+N (<22 kHz) 5 W THD+N	5,7
(<22 kHz) Half load signal-to-noise ratio dB(A)	0,041
	93
Damping factor 20 Hz	263
Damping factor 80 Hz	406
Damping factor 400 Hz	407
Damping factor 1 kHz	407
Damping factor 8 kHz	-
Damping factor 16 kHz	-

Features

Tiefpass	50 – 5k Hz (CH34)
Hochpass	50 – 5k Hz (CH12)/10 – 500 Hz (CH34)
Bandpass	0 10 – 5k Hz (CH34)
Bassanhebung	2 dB/45 Hz
Subsonicfilter via HP	
Phase shift	-
high-level inputs Auto power on. (Autoscythe)	•, DC or signal
RCA outputs Start-stop capability • (7.4 V)	•
Dimensions (L x W x H in mm)	20 x 150 x 45
Miscellaneous remote control, EPS, copy	

valuation

Price	around 350 euros	
Klang	40 %	1,2 yyyyyy
Labor	35 %	1,3 yyyyyy
Practice	25 %	1,1 yyyyyy

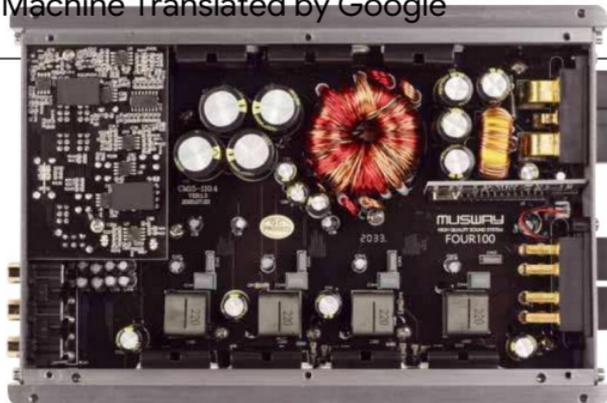
Musway Four 100

Absolute top class	1,2
top class	
upper class	
middle class	
entry level	
Price / offer:	Very good

CAR & HiFi

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"Top in all disciplines."



Under the strong
Power supply is from
Not much amplification to
see most
Components are located
under the circuit board

are. As is almost unavoidable with today's high-quality digital power amplifiers, the Four 100 uses a multi-layer circuit board. In this way, complicated layouts can also be implemented in a small space, and a multi-layer circuit board also has advantages in terms of EMC. The circuit shields itself a little so that there is less interference with radio reception. Of course, you don't have to be afraid of that with the Four 100, Musway is one of the brands that consider compatibility during development. In terms of equipment, we find high-level inputs including automatic switch-on for DC and AC voltage, and there are even a pair of cinch outputs. The Four 100 also serves as a link to the entire system because of its EPS for factory radios with a diagnostic function.

measurements and sound

The Musway does not show any weaknesses in the measurement course, it masters all disciplines with very good or even excellent results. A noise floor is as good as non-existent, so that the useful power can spread unhindered. And she does that in abundance. With 120 watts per channel already at 4 ohms, the Four 100 is very well fed.

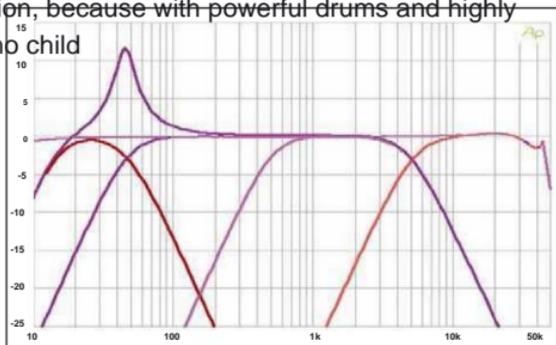
The full 200 watts are then possible at 2 ohms, or at 4 ohms bridge there are 2 x 414 watts for subwoofers. The distortions are very nice and low, especially with the small power outputs that are important in terms of sound. If the Four 100 is required, it still stays clean. In terms of sound, the little Musway presents itself very confidently. It also reproduces the deepest basses precisely, even at immense levels. Any form of weakness seems to be unknown to her. But she can also convince when listening to music. Mellow female voices, natural instruments with the right harmonic spectrum or even the quiet speakers, the Four 100 never disappoints. At the same time, she can also cater to the fun faction, because with powerful drums and highly dynamic percussion, she is no child

of sadness.

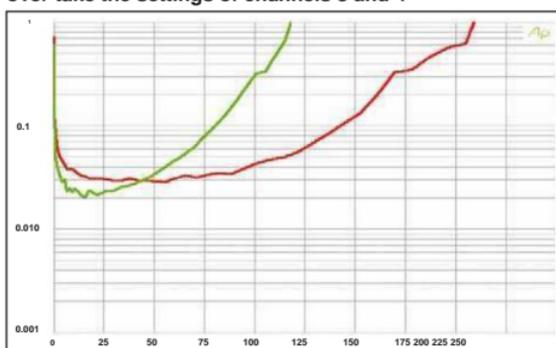
Conclusion

The Musway Four 100 offers rich, reliable performance and the best sound. With its valuable structure and modern, compact design, it is not too expensive either.

Elmar Michels



Channels 3 and 4 come complete with bandpass filter and bass boost. Channels 1 and 2 can be high pass or over take the settings of channels 3 and 4



Not completely distortion-free, but very clean with low power. There is also plenty of maximum power at 4 and 2 ohms