

# TA 480

POWER TUBE HYBRID AMPLIFIER

DATA SHEET



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*Like the entire Kora amplifier range, the TA 480 is powered by the Square Tube® operational amplifier. Equipped with 4 triodes per channel, this innovative circuitry provides very unique musical qualities to the amplifier.*

*The Square Tube® provides all functions of amplification and control of the audio signal. Its output voltage is that which will be applied to the speaker outputs. Complementary power transistors, audio and hyper-linear will give the current required by the speakers, but without interfering in the amplification of the signal. Technicians call it "Impedance matching". The power transistors can be seen as the output transformer.*

*But the Square Tube® / Transistors combination does not face the limitation usually associated with the usual output transformers:*

- There are no phase shifts in the low frequencies,
- There are no phase shifts in the high frequencies,
- There is no bad coupling in the low frequencies and above all: no current limitation!

*The combination of the high voltage capacitance of the Square Tube® and the high current of the output transistors gives you a very high definition power amplifier.*

- The tubes give the smoothness, the transistors give the unrestrained energy.
- Square Tube® brings phase accuracy and will extract a wealth of unsuspected detail from your sources with natural dynamics.
- At last but not least, the amplifier is very stable, even with complex loads.

**General characteristics**

<b>Overall dimension</b>	148 x 420 x 450 mm	<b>Materials</b>	Aluminium and steel
<b>Chassis size only</b>	130 x 420 x 420 mm	<b>Finish</b>	Mineral grey
<b>Unit weight</b>	27 kg	<b>Accessories</b>	Remote control, power chord, instructions
<b>Manufacturer's warranty</b>	5 years	<b>Construction &amp; design</b>	Toulouse, Occitania region, France

**Electronic features**

<b>Power supply</b>	IEC 230 V AC socket +7% ~ -10% (117V AC on request)	Maximum power input (2 x 400 W / 4Ω): 1050 VA Maximum power consumption (2 x 240 W / 8Ω): 650 W
<b>Internal power supply</b>	2 x (± 65 V DC)	Dual power supply
<b>Power supply transformer</b>	2 x 500 VA	Auxiliary supply: 5 DC/DC converters 2 linear regulators
<b>Main filtering</b>	2 x 100 000 μF	
<b>High voltage</b>	+ 300 V stabilised - 200 V stabilised	
<b>Input tube heater</b>	2 x 12 V DC	Regulated and grounded voltages
<b>Output tube heating</b>	2 x 12 V DC	Isolated regulated voltages
<b>Output power</b>	2 x 200 W / 8Ω 2 x 360 W / 4Ω	
<b>Output power distribution</b>	20 complementary highly linear power transistors "ON SEMI®" (225 W / 15 A each)	
<b>Inputs</b>	- 1 input asymmetrical, RCA connector input impedance: 10 k - 1 input symmetrical, 2 XLR connectors input impedance: 2 x 20 kΩ	Sensitivity: adjustable from 0,5V to 5V
<b>Bandwidth</b>	20 Hz ~ 20 000 Hz	± 1 dB
<b>Internal impedance</b>	Output: < 0.08 Ω	

