

VIOLECTRIC HPA V280 FE

The **HPA V280 FE (Final Edition)** is a re-development of the well known Violectric HPA V280. It offers a powerful true balanced headphone amplifier.

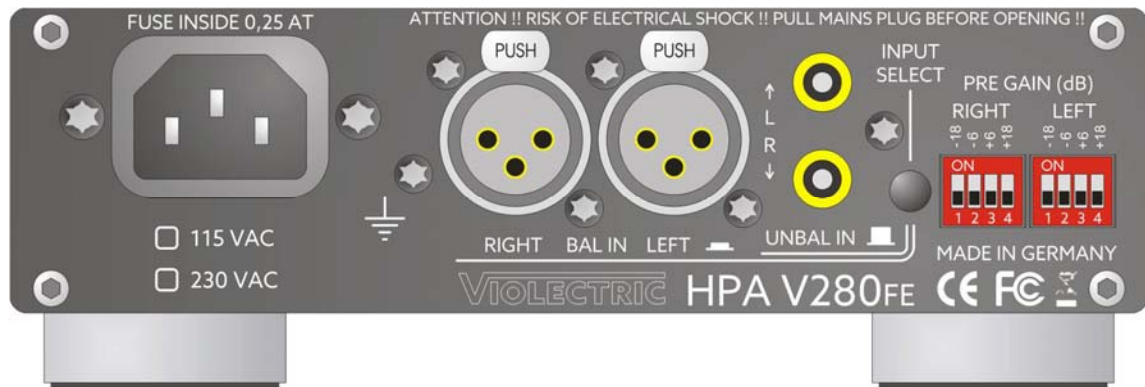
The circuitry was regenerated with the latest findings from the multiple test winners from Lake People, Violectric and Niimbus. Because of its matchless technology **HPA V280 FE** not only offers one of the most powerful headphone amplifiers in the market, but also:

- **LOWEST NOISE** through a very small amount of internal gain.
This makes the amplifier's self-generated noise inaudible.
- **HIGH OUTPUT VOLTAGE** through 50 V internal operating voltage. Therefor ideally suited for high-impedance headphones deserving high output voltage swing.
- **HIGH OUTPUT POWER** thanks to powerful amplifiers that offer far more power even the most demanding headphones would need. So best suited for headphones with low impedances as well as magnetostatic headphones !!
- **HIGH DAMPING FACTOR** due to lowest output impedance. Therefor the ideal match for difficult to drive headphones without negative side effects and with the guarantee for a uncompromising frequency response.



The **HPA V280 Final Edition** offers:

- 2 analogue stereo inputs, switchable from the back
balanced via XLR
unbalanced via RCA
- +/- 18 dB Pre-Gain for a perfect match of the DHA V280 FE between source and headphones
- volume control with RK27 potentiometer
- 4 powerful amps offering 5000 mW Pmax into 50 Ohm and 21 V RMS into 600 Ohm
- Delayed coupling of the headphone to the amps after power-on
- 1 balanced headphone output with 4-pin XLR
- 2 single ended outputs with 6,3 mm jack
- 2 toroidal transformers, > 20.000 uF filter capacity



Technical Data:

All Data RMS unwtd., 20 Hz - 20 kHz, Pre-Gain set to 0 dB

Analogue input parameter

Inputs (stereo): 1 x XLR, balanced, 1 x RCA, unbalanced

Max. input voltage: + 21 dBu, Input impedance: 10 kohm

Headphone amp parameter

Nominal input sensitivity: +6 dBu

Feedback gain: +2 dB unbal / +8 dB bal

PRE-GAIN: -18 / -12 / -6 / 0 / +6 / +12 / +18 dB

Frequency range: 5 Hz ... 100 kHz (- 0,5 dB)

Output impedance: 0,2 Ohm unbal / 0,4 Ohm bal

Damping factor (Load 50 Ohm): 250 unbal / 125 bal

Dynamic range: > 128 dB (A-wtd)

Noise: < -100 dBu (A-wtd)

THD+N (1kHz/2x10V/100R = 1W): < -108 dB / < 0,0004 %

THD+N (1kHz/2x4V/32R = 0,5W): < -109 dB / < 0.00035 %

Crosstalk: -115 dB (1 kHz) / -100 dB (15 kHz)

Headphones out: 1 x 4-pin XLR,

2 x 1/4" (6.3 mm) TRS jack

Data of the balanced headphone output			
R _L (Ohm)	P _L (mW)	U _A (V)	U _A (dB)
600	1700	31,5	32,2
300	3300	31,5	32,2
100	5400	22,9	29,4
50	3100	12,4	24,0
32	2400	8,4	20,7
16	1200	4,2	14,7

General

Supply voltage: 230 V AC / 115 V AC max. 30 VA

Front, Back: 8 mm / 3 mm Aluminum, black anodized

Case: 4 mm Aluminum, black anodized

Case dimensions: 170 x 49 x 310 mm (W x H x D)

Overall dimensions: 170 x 57 x 330 mm (W x H x D)