

PRELIMINARY



ideato,
progettato,
ingegnerizzato
in Italia

Voce

AV 5.1k

1650 W POWER AMPLIFIER
Five Channel Power Amplifier
with Crossover



Power Supply

Power supply voltage:	11 ÷ 15 VDC
Idling current:	3 A
Idling current when off:	0.02 mA
Consumption @ 14.4 VDC, (Max Musical Power):	110 A

Amplifier stage

Distortion - THD (1 Hz @ 4 Ω) A, B Ch:	0.05 %
Distortion - THD (100 Hz @ 4 Ω) A, SUB Ch:	0.5 %
Bandwidth (-3 dB) A, B Ch:	4 ÷ 60k Hz
Bandwidth (-3 dB) SUB Ch:	7 ÷ 1k Hz
S/N ratio (A weighted @, 1V) A, B Ch:	105 dB
S/N ratio (A weighted @, 1V) SUB Ch:	87 dB
Damping factor (1k Hz @ 4 Ω) A, B Ch:	100
Damping factor (100 Hz @ 4 Ω) SUB Ch:	80
Input sensitivity:	0.3 ÷ 5 V
Input impedance:	15k Ω
Speaker-In sensitivity:	1.4 ÷ 24 V
Speaker-In impedance:	5k Ω
Load impedance (Min):	2Chx4Ω+2Chx2Ω+1Chx2Ω
NOMINAL OUTPUT POWER (RMS)	
NP @ 12VDC; THD 0,3%, 1% A/B, SubCh:	
	50 W x 2 + 120 W x 2 + 500 W x 1

OUTPUT POWER (RMS) @ 14.4 VDC, THD 1% :

• 5 Ch	75 Wx2(4Ω)+140 Wx2(4Ω)x600 Wx1(4Ω)
• 5 Ch	75 Wx2(4Ω)+140 Wx2(4Ω)x1000 Wx1(2Ω)
• 5 Ch	75 Wx2(4Ω)+250 Wx2(2Ω)x1000 Wx1(2Ω)

CEA SPECIFICATIONS

Output power @ 4 Ω, 1% THD+N, 14.4 V:	75 W x 2 + 140 W x 2 + 600 W x 1
SN ratio (ref. 1W output):	
	75 W Channels: 80 dBA
	140 W Channels: 80 dBA
	600 W Channels: 78 dBA



AV 5.1k, 1600 W (RMS), five channels: with its hybrid design, it is the specialist amplifier for front + rear + subwoofer or multi-amplified front + subwoofer systems. Its high-quality AB Class output stage provides two channels with 250 W (RMS), combined with another pair of channels rated at 75 W (RMS), perfect for active two-way front speaker systems. The D Class mono section provides 1000 W (RMS) for a dynamic, powerful subwoofer output.

AV 5.1k also allows you to replace the analog input board with the digital one (AV bit IN).

Other functions

Remote IN:	7 ÷ 15 VDC - 1mA
Remote OUT:	12 VDC - 15mA
Fuse (AFS):	100 A
Input for remote SUB volume Adjustment	(-50) ÷ (+6) dB

Inputs / Filters

Inputs:	Pre IN / Speakers IN
Outputs:	PRE OUT
A Ch Filters:	Full / Hi pass 50 ÷ 5k Hz (2 range) @ 12 dB/Oct.
B Ch Filters:	Full / Hi pass / Band pass 50 ÷ 1k Hz (Hi) 250 ÷ 5k (LO) @ 12 dB/Oct.
C Ch Filters:	Full / Lo pass 50 ÷ 150 Hz @ 24 dB/Oct.
Remote SUB volume:	(-50) ÷ 0 ÷ (+6) dB

Size / Weight

Max size (mm/inches):	220 x 470 x 58 / 8,66" x 18,50" x 2,28"
Weight (kg/lb):	7,2 / 15,87

PRELIMINARY

Filters

Speaker Output			Signals Inputs and Selector		
C channels	B channels	A channels	C input	B input	A input
<p>Lo-pass ss 50-150 Hz 24 dB</p>	<p>Hi-pass 50-1k Hz</p>	<p>Hi-pass 50-5k Hz</p>	<p>SUB A+B</p>	<p>A (Preout) B</p>	INPUT
<p>Lo-pass ss 50-150 Hz 24 dB</p>	<p>Bandpass 50-1k Hz 250-5k Hz</p>	<p>Hi-pass 50-5k Hz</p>	<p>SUB A+B</p>	<p>A (Preout) B</p>	INPUT
<p>Bypass</p>	<p>Bypass</p>	<p>Bypass</p>	<p>SUB A+B</p>	<p>A (Preout) B</p>	INPUT