



Information

DNA Series Amplifiers – Main Specifications

Power Amplifier Performance and Physical

Parameter (Units)	DNA 40	DNA 80	DNA 100	DNA 120
Output Power per channel [Crest Factor = 4.8] (Watts)				
8 Ohms	500	1000	1400	2400
4 Ohms	1000	2000	2700	4600
2.7 Ohms	1400	2200	3700	6250
2 Ohms	1200	2000	3500	6800
Output Power /ch. bridged [Crest Factor = 4.8] (Watts)				
8 Ohms	2000	4000	5600	---
4 Ohms	2400	4000	7000	---
THD+N, 4 Ohms (%)				
@1kHz, 1dB below max output power <	0.08	0.08	0.08	0.08
@20Hz - 20kHz, 1dB below max output power <	0.1	0.1	0.1	0.1
Gain Options (dB)	26/32	26/32	26/32	26/32
Sensitivity Options for max power (dBu)	6.23	8.79	10.7	13
Sensitivity Options for max power (Volts)	1.59	2.13	2.66	3.48
Frequency Response, +0/0.5dB (Hz)	20 – 20000	20 – 20000	20 – 20000	20 – 20000
Power Consumption, Nominal @ 240V, 4 Ohms (A)	2.9	5.0	7.5	6.4
Power Consumption, Nominal @ 120V, 4 Ohms (A)	6	10.4	15.5	13.2
Dimensions H x W x D (mm)				
Amplifier	88 x 482 x 458	88 x 482 x 458	88 x 482 x 458	88 x 482 x 458
Boxed	230 x 580 x 560	230 x 580 x 560	230 x 580 x 560	230 x 580 x 560
Boxed Shipping – all except UK	250 x 610 x 600	250 x 610 x 600	250 x 610 x 600	250 x 610 x 600
Weight (kgs)				
Amplifier	10.0	11.0	12.5	12.25
Boxed – shipping	12.0	13.0	14.5	14.25

Additional Specifications

Parameter (Units)	DNA 40	DNA 80	DNA 100	DNA 120
Input Impedance – Active Balanced (Ohms)	20k	20k	20k	20k
Input CMRR (dB)	> 60	> 60	> 60	> 60
Damping Factor, 1kHz, 8 ohms	> 400	> 400	> 400	> 400
Signal Limiters Present	Yes	Yes	Yes	Yes
Protection Present – Short Circuit / DC Output / Temperature	Yes	Yes	Yes	Yes
Mains In-rush Control Present	Yes	Yes	Yes	Yes
Output Power per channel, 8 Ohms (Watts)				
Continuous music [Crest Factor of 2.8 or 9dB]	485	975	1360	2350
Continuous music [Crest Factor of 4.8 or 14dB]	500	1000	1400	2400
Continuous music [Crest Factor of 7.8 or 18dB]	515	1025	1440	2450
Output Power per channel, 4 Ohms (Watts)				
Continuous music [Crest Factor of 2.8 or 9dB]	970	1950	2620	4600
Continuous music [Crest Factor of 4.8 or 14dB]	1000	2000	2700	4700
Continuous music [Crest Factor of 7.8 or 18dB]	1030	2050	2780	4800
Output Power per channel, 2.7 Ohms (Watts)				
Continuous music with Crest Factor of 2.8 [9dB]	1365	1960	3600	6050
Continuous music with Crest Factor of 4.8 [14dB]	1400	2010	3700	6250
Continuous music with Crest Factor of 7.8 [18dB]	1435	2060	3880	6350

Due to continuing product improvement, the above specifications are subject to change.



Power Consumption and Thermal Emissions – DNA 40

Mains (V)	Load (R)	Current Draw (A)				Thermal Emissions (W)			
		No Sig'l	Light	Average	Heavy	No Sig'l	Light	Average	Heavy
240	8	1.0	1.4	2.1	3.7	240	251	269	312
240	4	1.0	1.7	2.9	5.8	240	258	290	366
240	2.7	1.0	1.9	3.4	7.1	240	264	304	402
120	8	2.2	3.0	4.4	7.7	267	277	295	338
120	4	2.2	3.6	6.0	11.7	267	285	317	392
120	2.7	2.2	4.0	7.1	14.5	267	290	331	428

Power Consumption and Thermal Emissions – DNA 80

Mains (V)	Load (R)	Current Draw (A)				Thermal Emissions (W)			
		No Sig'l	Light	Average	Heavy	No Sig'l	Light	Average	Heavy
240	8	1.5	2.2	3.4	6.3	360	378	410	486
240	4	1.5	2.8	5.0	10.3	360	394	453	593
240	2.7	1.5	3.1	5.8	12.4	360	402	474	647
120	8	3.3	4.7	7.1	12.9	400	418	450	526
120	4	3.3	5.9	10.4	21.0	400	434	493	633
120	2.7	3.3	6.5	12.0	25.1	400	442	514	687

Power Consumption and Thermal Emissions – DNA 100

Mains (V)	Load (R)	Current Draw (A)				Thermal Emissions (W)			
		No Sig'l	Light	Average	Heavy	No Sig'l	Light	Average	Heavy
240	8	2.1	3.2	5.1	9.6	504	533	582	701
240	4	2.1	4.1	7.5	15.7	504	557	647	863
240	2.7	2.1	4.6	8.9	19.1	504	570	682	953
120	8	4.7	6.9	10.6	19.6	560	589	638	757
120	4	4.7	8.7	15.5	31.9	560	613	703	919
120	2.7	4.7	9.7	18.2	38.7	560	626	738	1009

Power Consumption and Thermal Emissions – DNA 120

Mains (V)	Load (R)	[A]	Current Draw (A)			Thermal Emissions (W)				
			No Sig'l	Light	Average	Heavy	No Sig'l	Light	Average	Heavy
240	8		1.8	2.7	4.3	8.2	432	457	499	601
240	4		1.8	3.5	6.4	13.4	432	477	553	737
240	2		1.8	3.9	7.5	16.1	432	487	582	809
120	8		4.0	5.9	9.1	16.8	480	505	547	649
120	4		4.0	7.4	13.2	27.1	480	525	601	785
120	2		4.0	8.2	15.3	32.6	480	535	630	857

No Sig'l = Quiescent, Light = Crest Factor of 7.8(18dB),

Average = Crest Factor of 4.8(14dB), Heavy = Crest Factor of 2.8(9dB)

For details of measurement methods please refer to the Technical Support area of our website.

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