

PRELIMINARY

AMPLIFIER

HDP1 1000 W MAX

D CLASS MONO POWER AMPLIFIER

Power Supply

Power supply voltage:	11÷15 VDC
Idling current:	2 A
Idling current when off:	0,04 mA
Consumption @1Ω, 14.4 VDC (Max Musical Power):	60 A

Amplifier stage

Distortion - THD (100 Hz @ 4Ω):	0,09 %
Bandwidth (-3 dB):	15 Hz ÷ 150 Hz
S/N Ratio (A weighted @ 1 V):	103 dB
Damping factor (100 Hz @ 4Ω):	100
Pre-In sensitivity:	0,3 ÷ 5 V
Pre-In impedance:	15 kΩ
Speaker-In sensitivity:	1,4 ÷ 24 V
Speaker-In impedance:	470 Ω
Load impedance:	
1 Ch	4 ÷ 2 Ω

CEA 2006-A RATINGS

RMS Power (4 Ohms, ≤1% THD+N, 14.4Volts): 600 W x 1Ch

S/N Ratio (ref. 1 W output): 83,5 dBA



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

1 Ch 600 W x 1 (4 Ω)
1 Ch 1000 W x 1 (2 Ω)

Other features

Remote In:	6 ÷ 15 VDC - 1 mA
Remote Out:	12 VDC - 15 mA
ART™:	Automatic Remote Turn-On/Off with Speaker-In
Fuse:	3 x 40 A



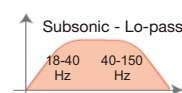
- 1 Thermally optimized die-cast heatsink;
- 2 4 leds monitor the status of the amplifier;
- 3 Special pseudo-balanced dual input circuitry to reject electromagnetic disturbances present on the Pre-amplified or Speaker level inputs;
- 4 HDP Input featuring either Speaker In (OEM radio) or RCA (Aftermarket radio) inputs;
- 5 ART™, Automatic Remote Turn-On/Off function, automatically turns on and off the amplifier when the OEM radio turns on and off (available on Speaker In only);
- 6 Full range Pre-out, also available when using Speaker Level In inputs;
- 7 Continuously variable (0–180°) phase control for proper alignment of the subwoofer output with the front woofers;
- 8 Continuously adjustable (18 to 40Hz) 24dB/Oct. subsonic filter;
- 9 Real 24dB/Oct. continuously adjustable (40 to 150Hz) Lo-Pass filter;
- 10 Double power supply stage featuring multiple winding transformer, Low-ESR 105°C capacitors, Synchro D-Class 2 Ω stable (1000W RMS) output stage based on solid TO220 Power Mosfets.

Inputs / Filters

Inputs :	Pre IN / Speakers IN
Outputs :	Pre OUT
Filters : Lo Pass	40 ÷ 150 Hz @ 24dB/Oct.
Phase :	Continuous adjustment: 0 ÷ 180°
Subsonic : Hi Pass	18 ÷ 40 Hz @ 24dB/Oct.
Remote SUB volume :	(-50) ÷ 0 ÷ (+6) dB

Filter configuration

Config. Speaker Output



Size / Weight

Max size (mm/inches):	171 x 344 x 46,70 6.73" x 13.54" x 1.83"
Weight (kg/lb):	3,09 / 6,81

PRELIMINARY

AMPLIFIER

HDP4 1000 W MAX

D CLASS FOUR CHANNEL POWER AMPLIFIER

Power Supply

Power supply voltage:	11 ÷ 15 VDC
Idling current:	1,5 A
Idling current when off:	0,04 mA
Consumption @ 2Ω, 14,4 VDC (Max Musical Power):	50 A

Amplifier stage

Distortion - THD (1 kHz @ 4Ω):	0,09 %
Bandwidth (-3 dB):	10 ÷ 55k Hz
S/N Ratio (A weighted @ 1 V):	100 dB
Damping factor (1 kHz @ 4Ω):	50
Pre-In sensitivity:	0,3 ÷ 5 VRMS
Pre-In impedance:	15 kΩ
Speaker-In sensitivity:	1,4 ÷ 24 VRMS
Speaker-In impedance:	470 Ω
Load impedance:	
4 Ch	2 Ω
3 Ch	2 x 2 Ω + 1 x 4 Ω
2 Ch	4 Ω

CEA 2006-A RATINGS

RMS Power (4 Ohms, ≤1% THD+N, 14,4Volts): 120 W x 4Ch

S/N Ratio (ref. 1 W output): 80 dBA



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

4 Ch	150 W x 4 (4 Ω)
4 Ch	250 W x 4 (2 Ω)
3 Ch	150 W x 2 (4 Ω) + 500 W x 1 (4 Ω)
3 Ch	250 W x 2 (2 Ω) + 500 W x 1 (4 Ω)
2 Ch	500 W x 2 (4 Ω)

Other features

Remote In:	6 ÷ 15 VDC - 1 mA
Remote Out:	12 VDC - 15 mA
ART™:	Automatic Remote Turn-On/Off with Speaker-In
Fuse:	2 x 40 A



- 1 Thermally optimized die-cast heatsink;
- 2 4 leds monitor the status of the amplifier;
- 3 Special pseudo-balanced dual input circuitry to reject electromagnetic disturbances present on the Pre-amplified or Speaker level inputs.
- 4 HDP Input featuring either Speaker In (OEM radio) or RCA (Aftermarket radio) inputs;
- 5 ART™, Automatic Remote Turn-On/Off function, automatically turns on and off the amplifier when the OEM radio turns on and off (available on Speaker In only);
- 6 Real 12dB/Oct. continuously adjustable (50 to 5kHz and 80 to 3.3kHz) active crossover with Lo-Pass/Hi-Pass or Full Range settings;
- 7 A/B Input switch eliminates the need for RCA Y-Adapters;
- 8 Double power supply stage featuring multiple winding transformer, Low-ESR 105°C capacitors, Synchro D-Class 2 Ω stable output stage based on solid TO220-5 half bridge package Power Mosfets.

Inputs / Filters

Speakers Output		Signals Inputs and Selector	
B channels	A channels	B input	A input
			INPUT
			INPUT
			INPUT

Inputs / Filters

Inputs:	Pre IN / Speakers IN
Outputs:	Pre OUT
A Ch filters: Full/Hi pass/Lo pass	50 ÷ 5k Hz (2 range) @ 12dB/Oct.
B Ch filters: Full/Hi pass/Lo pass	80 ÷ 3.3k Hz @ 12dB/Oct.

Size / Weight

Max size (mm/inches):	171 x 284 x 46,70 6.73" x 11.18" x 1.83"
Weight (kg/lb):	2,45 / 5,4

PRELIMINARY

AMPLIFIER

HDP5 950 W MAX

D CLASS FIVE CHANNEL POWER AMPLIFIER

Power Supply

Power supply voltage:	11÷15 VDC
Idling current:	2,6 A
Idling current when off:	0,04 mA
Consumption @ 2 Ω, 14,4 VDC (Max Musical Power):	50 A

Amplifier stage

Distortion - THD A, B & C Ch (100 Hz @ 4Ω)	0,07 %
Bandwidth A & B Ch (-3 dB)	10 ÷ 50K Hz
Bandwidth C Ch (-3 dB)	10 ÷ 150 Hz
S/N Ratio A & B Ch (A weighted @ 1V)	100 dB
S/N Ratio C Ch (A weighted @ 1V)	106 dB
Damping factor A & B Ch (100Hz @ 4Ω)	50
Damping factor C Ch (100Hz @ 4)	100
Pre-In sensitivity	0.3 ÷ 5 VRMS
Pre-In impedance	15 kΩ
Speaker-In sensitivity	1.4 ÷ 24 VRMS
Speaker-In impedance	470 Ω
Load impedance	
5 Ch	4 x 2 Ω + 1 x 2 Ω
3 Ch	2 x 4 Ω + 1 x 2 Ω

CEA 2006-A RATINGS

RMS Power (4 Ohms, ≤1% THD+N, 14.4Volts): 60W x 4Ch + 310W x 1Ch

S/N Ratio (ref. 1 W output):

60 W Channels: 80 dBA
310 W Channels: 84 dBA



OUTPUT POWER (RMS) @ 14,4 VDC, THD 1%:

5 Ch	70 W x 4 + 380 W x 1 (4 Ω)
5 Ch	100 W x 4 + 550 W x 1 (2 Ω)
3 Ch	200 W x 2 (4 Ω) + 380 W x 1 (4 Ω)
3 Ch	200 W x 2 (2 Ω) + 550 W x 1 (2 Ω)

Other features

Remote In:	6 ÷ 15 VDC - 1 mA
Remote Out:	12 VDC - 15 mA
ART™:	Automatic Remote Turn-On/Off with Speaker-In
Fuse:	2 x 40A



- 1 Thermally optimized die-cast heatsink;
- 2 4 leds monitor the status of the amplifier;
- 3 Dual separate power supply stages for A & B channels, C channel based on Multi-winding toroidal transformers plus Low ESR 105°C resistant electrolytic capacitors;
- 4 Special pseudo-balanced dual input circuitry to reject electromagnetic disturbances present on the Pre-amplified or Speaker level inputs;
- 5 Pre-amplified and Speaker level inputs allow interface with aftermarket or OEM sources. Speaker level inputs are provided with compact "install-friendly" connector;
- 6 ART™, Automatic Remote Turn-On/Off function, turns the amplifier on and off in perfect sync with the source, eliminating the need for a remote signal when using the hi-level inputs. Remote Out signal is also provided to turn on/off other components installed in the system;
- 7 Flexible crossover system allows full range or hi-pass 12dB/Oct. filter on A & B channels for front plus rear configuration and lo-pass 24dB/Oct. filter on C channel for optimal subwoofer driving;
- 8 3-Channel mode switch is provided to easy set up the amplifier for high power front speaker system plus subwoofer to achieve up to 200W x 2 (4Ω) + 550W x 1 (2 Ω).



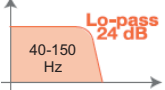
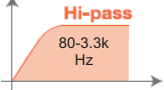
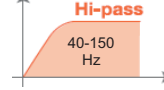

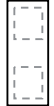


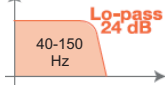
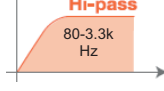
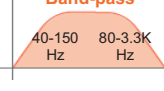




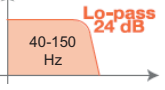
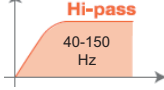
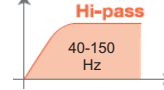



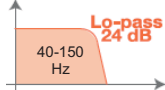
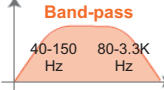
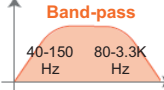



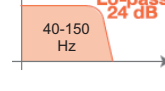




Inputs / Filters

Inputs:	Pre IN / Speakers IN
A Ch filters: Full / Hi pass / Band pass	40÷150 Hz (HI) 80÷3.3k Hz (LO) @ 12dB/Oct.
B Ch filters: Full/Hi pass	80÷3.3k Hz @ 12dB/Oct.
C Ch filters: Lo pass	40 ÷ 150 Hz @ 24dB/Oct.
Remote SUB volume:	(-50) ÷ 0 ÷ (+6) dB

Size / Weight

Max size (mm/inches):	171 x 344 x 46,70 6.73" x 13.54" x 1.83"
Weight (kg/lb):	3,09 / 6,81

Inputs / Filters

MODE	Speakers Output			Signals Inputs and Selector		
	SUB	B channels	A channels	SUB input	B input	A input
 5ch  3ch	 Lo-pass 24 dB 40-150 Hz	 Hi-pass 80-3.3k Hz	 Hi-pass 40-150 Hz	 SUB A+B	 A B	INPUT
 5ch  3ch	 Lo-pass 24 dB 40-150 Hz	 Hi-pass 80-3.3k Hz	 Band-pass 40-150 Hz 80-3.3K Hz	 SUB A+B	 A B	INPUT
 5ch  3ch	 Lo-pass 24 dB 40-150 Hz	LEFT -BRIDGE-  Hi-pass 40-150 Hz	RIGHT -BRIDGE-  Hi-pass 40-150 Hz	 SUB A+B	X	INPUT
 5ch  3ch	 Lo-pass 24 dB 40-150 Hz	LEFT -BRIDGE-  Band-pass 40-150 Hz 80-3.3K Hz	RIGHT -BRIDGE-  Band-pass 40-150 Hz 80-3.3K Hz	 SUB A+B	X	INPUT
 5ch  3ch	 Lo-pass 24 dB 40-150 Hz	 Bypass	 Bypass	 SUB A+B	 A B	INPUT