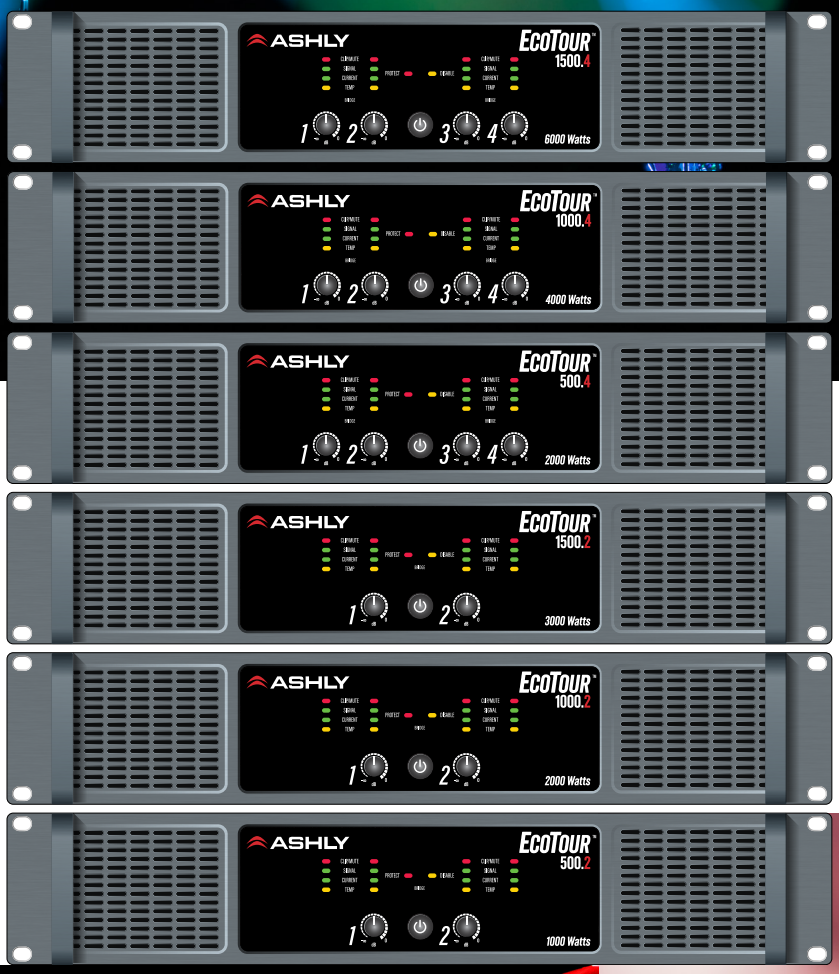
EcoTour™ Series Power Amplifiers, designed for touring applications

Our most efficient amp series yet! D-MAX Class D technology, Dynamic Power Factor Correction, and SailFlow cooling.



D-MAX Class D technology and Dynamic Power Factor Correction make our EcoTour™ series the most efficient amplifiers we (or anyone else) have offered -- 25% more efficient than one of our most popular competitors.

Efficiency definitely counts when the electrical power bill comes. But our EcoTour™ Series have *another* advantage over other amps of the same power: you can run any TWO EcoTour's on a ***single*** 20-amp line. If your project needs two amps, you don't have to call a $100/hr electrician to add a second 20-amp feed.

EcoTour™ amps sound superb even when driven hard and stay cooler than most, thanks to straight-thru, unimpeded SailFlow cooling.

ASHLY®

5 5-YEAR WARRANTY

EcoTour™ Series

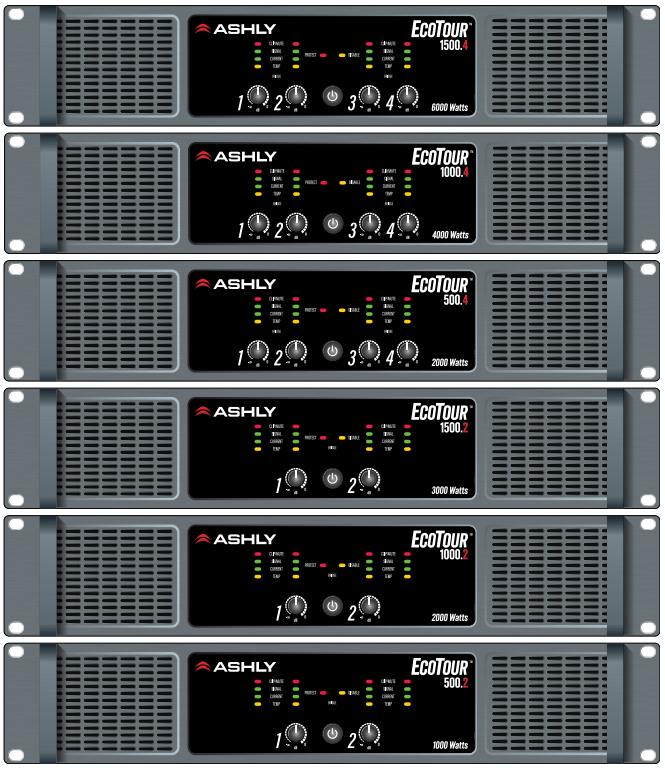
High-Efficiency Power Amplifiers

Ashly's proprietary D-MAX™ technology takes Class D performance and efficiency to a whole new level. By starting with a clean slate, our engineers were able to apply cutting-edge design practices and state-of-the-art components to the most efficient amp we've tested thus far.

The pay-off is less heat, lower distortion, more stable operation and greater reliability. Bulky heat sinks are no longer required. Instead, we optimized active air cooling using our newly developed SailFlow™ design, which moves the air along a selective path, to where it's needed most.

Coupled with our ultra-high-speed switching power-supply and intelligent power management, all the transient impact and spatial detail of your sound is preserved and your speakers will never be happier.

Light-weight and power-efficient, EcoTour™ will never pull more power than your wall outlet delivers. No more worry about driving speakers to the brink of destruction or tripping breakers.



EcoTour™ Series Model	Chs	2Ω	4Ω 8Ω	8Ω bridged	Constant Voltage
500.2	2	500W	500W 250W	1000W	1000W bridged 70V
1000.2	2	1000W	1000W 500W	2000W	1000W 70V 2000W 100V bridged
1500.2	2	1500W	1500W 750W	3000W	1500W 70V 3000W 100V bridged
500.4	4	500W	500W 250W	1000W	1000W bridged 70V
1000.4	4	1000W	1000W 500W	2000W	1000W 70V 2000W 100V bridged
1500.4	4	1500 W	1500W 750W	3000W	1500W 70V 3000W 100V bridged

- *2 and 4-channel models*
- *500 to 1500W @4Ω*
- *Stable 2Ω rating*
- *70/100V capability*
- *Ultra efficient D-MAX Class D design*
- *DPFC (Dynamic Power Factor Correction)*
- *Selectable amp gain per channel*
- *Adjustable front panel Input Gain per channel with lock-out*
- *Bi-lateral SailFlow cooling*
- *XLR / 1/4 in combo jack and Neutrik speakON jacks*
- *Switchable HPF and Clip Limiter per channel*
- *CV remote ports per channel*
- *Solid metal front panel*
- *5-year Warranty*

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General Power Amplifier Specifications (0dBu = 0.775V rms)						
Amplifier Model	**1500.4**	**1500.2**	**1000.4**	**1000.2**	**500.4**	**500.2**
Maximum Output Power - in Watts						
CEA-2006/490A, 20ms 1kHz 1%THD+N, 480ms 1kHz -20dB, 120VAC, all channels driven at rated load						
Low Z output, per channel						
2 Ohm	1500	1500	1000	1000	500	500
4 Ohm	1500	1500	1000	1000	500	500
8 Ohm	750	750	500	500	250	250
Low Z output, per bridged channel pair*						
4 Ohm	3000*	3000*	2000*	2000*	1000*	1000*
8 Ohm	3000*	3000*	2000*	2000*	1000*	1000*
70V/100V* output						
70V	1500 (direct)	1500 (direct)	1000 (direct)	1000 (direct)	1000* (bridged)	1000* (bridged)
100V	3000* (bridged)	3000* (bridged)	2000* (bridged)	2000* (bridged)	1000* (bridged)	1000* (bridged)
*May require Class 3 speaker wiring, all others use Class 2 wiring. See section 2.3						
Total Power Draw - in Watts, all channels driven, 1/8 power sinewave						
Standby	22	13	19	10	17	8
Idle (no signal)	100	31	70	40	34	17
1/8 max power	975	485	675	335	345	172
Total Current Draw - in Amps, all channels driven, 1/8 power sinewave, 120VAC (divide by 2 for 240VAC)						
Standby mode	0.39	0.24	0.37	0.21	0.35	0.2
Idle (no signal)	0.68	0.36	0.64	0.34	0.5	0.27
1/8 max power	8.9	4.2	6	3	3	1.5
Total Thermal Dissipation - in BTU/hour with typical input, all channels driven, 120VAC						
Standby mode	76	44	65	32	57	28
Idle (no signal)	209	105	184	96	115	57
1/8 max power, 4 Ohm	648	314	474	229	266	120
1/8 max power, 2 Ohm	754	355	576	269	304	148
Input Sensitivity - in Volts and dBu, per back panel DIP Switch gain settings						
@26dB gain	2.0V (+8.2dBu)	2.0V (+8.2dBu)	2.7V (+11dBu)	2.7V (+11dBu)	3.9V (+14dBu)	3.9V (+14dBu)
@32dB gain	1.0V (+2.2dBu)	1.0V (+2.2dBu)	1.4V (+5.1dBu)	1.4V (+5.1dBu)	1.9V (+7.8dBu)	1.9V (+7.8dBu)
@38dB gain	0.5V (+3.8dBu)	0.5V (+3.8dBu)	0.68V (-1.1dBu)	0.68V (-1.1dBu)	0.97V (+2dBu)	0.97V (+2dBu)
@1.4V gain	1.4V (+5.1dBu)	1.4V (+5.1dBu)	1.4V (+5.1dBu)	1.4V (+5.1dBu)	1.4V (+5.1dBu)	1.4V (+5.1dBu)

Electronic	
Distortion (SMPTE, typical)	<0.5%
Distortion (THD-N, typical, 8 Ohm, 10dB below rated power, 20Hz-20kHz	<0.5%
Signal to Noise, 26dB input sensitivity, 20Hz-20kHz, unweighted	>98dB (50x models) >101dB (1.0x models) >103dB (1.5x models)
Frequency Response	20Hz-20kHz, ±0.05dB
Channel Separation (dB from full output, 1kHz)	-75dB
Damping Factor (8 Ohm load, <1kHz)	>250
Balanced Input Connector (per channel)	Euroblock (3.5mm), ¼" TRS and XLR Combo jack
Input Impedance	10k Ohm
Maximum Input Level	+21dBu

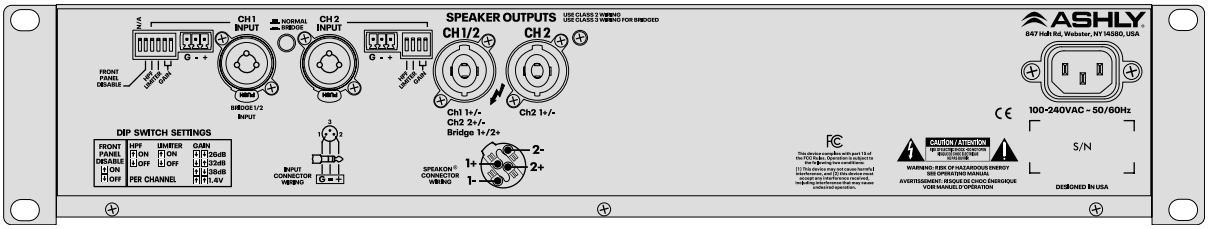
Bridge Mode Switch (per channel pair)	In for bridged mode, Out for stereo
Remote DC Level Control (G, CV, V+ per channel)	Euroblock (3.5mm), V+ is fully on, G is fully attenuated
DIP Switch settings (per channel)	
Switches 1-2: Input Gain	26dB, 32dB, 38dB, 1.4V
Switch 3: Output Clip Limiter	On, Off
Switch 4: Input High Pass Filter	80Hz 2nd order HPF, On, Off
DIP Switch settings (global)	
Switch 5: Front Panel Disable	On, Off
Speaker Output Connector	Neutrik speakON
Front Panel Indicators	
Power Switch LED (white)	On, Off, Standby (flashing)

Clip/Mute LED (red)	On at 95% max output (0.5dB below max), Mute
Signal LED (green)	On at 25% max output (12dB below max)
Current LED (green)	On at >2 Amps to speaker load
Temp LED (yellow)	On when thermal counter-measures are being applied
Bridge LED (green)	Per Channel Pair - On, Off
Protect LED (red) see troubleshooting section for protect LED error codes	On for fault condition counter-measures or shut-down, Off
Disable LED (yellow)	On when front panel controls are disabled, Off
Controls	
Attenuators	Per channel: front panel, Fully off = Mute

Remote Control Options	WR-1, WR-1.1 DC level control
Protection and Cooling	
Amplifier Protection	In-rush current, over-temperature, output DC, output over-power, AC mains voltage, mains fuses
Cooling	Continuously variable temperature controlled fan(s)
Physical	
Power Cable Connector	20A IEC

Operating Voltage Range (50-60Hz, 85VAC or 170VAC min startup)	70-135VAC @110-120VAC, 140-270VAC @220-240VAC
Environmental	32°F-120°F, (0°C-49°C) non-condensing
Unit Dimensions (all models)	19"W x 3.5"H x 16.1"D (483 x 89 x 409mm)
Unit Weight by Model	**500.2** 15lbs (6.81kg) **500.4** 17.5lbs (7.95kg) **1000.2** 15.5lbs (7.04kg) **1000.4** 19.5lbs (8.85kg) **1500.2** 16lbs (7.26kg) **1500.4** 20lbs (9.08kg)
Physical (continued)	

Shipping Dimensions all models)	21.9"W x 5.43"H x 19.3"D (556mm x 13.8mm x 489mm)
Shipping Weight by Model	**500.2** 18.5lbs (8.4kg) **500.4** 21.5lbs (9.76kg) **1000.2** 19.5lbs (8.85kg) **1000.4** 24.0lbs (10.9kg) **1500.2** 20.0lbs (9.08kg) **1500.4** 24lbs (10.9kg)
Safety/Compliance	cTUVus, CE, FCC Class B, RoHS

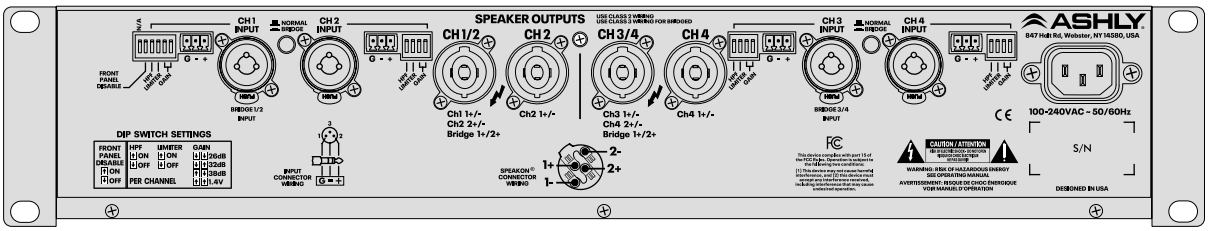


2-Ch.

EcoTour 500.2

EcoTour 1000.2

EcoTour 1500.2



4-Ch.

EcoTour 500.4

EcoTour 1000.4

EcoTour 1500.4

Notes:

USER MANUAL

SCAN ME

Or download the complete User Manual at http://ashly.com/

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