

F2>400 (IV) PRODUCT SPECIFICATIONS [Rev. 0 - Last update: 2006/07/10]

CEA-2006-A SPECIFICATIONS

POWER RATING: **170 Watts per channel @ 4 Ohms < 1% THD+N**
SN RATIO: **>87 dBA (reference: 1 Watt into 4 Ohms)**

GT Trading SPECIFICATIONS (Tease = 25 °C / 4 Ohms stereo / 0.17V input level if not otherwise specified)

POWER RATINGS:	170Watts per channel @ 4 Ohms < 0.3% THD+N 280Watts per channel @ 2 Ohms < 0.3% THD+N 600Watts BTL mode @ 4 Ohms < 0.3% THD+N 850Watts BTL mode @ 2 Ohms < 0.3% THD+N
Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:	170 W x 2 – 35.5A – 69.2 % efficiency
Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:	280 W x 2 – 57 A – 60.4 % efficiency
Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD:	600 W x 1 – 59 A – 60.4 % efficiency
THD @ 4 Ohm / 14V4 / STEREO:	< 0.04 % (1KHz / Power rating ref)
THD @ 2 Ohm / 14V4 / STEREO:	< 0.04 % (1KHz / Power rating ref)
THD @ 4 Ohm / 14V4 / BRIDGE:	< 0.04 % (1KHz / Power rating ref)
DIM @ 4 Ohm / 14V4 / STEREO:	< 0.01 % (Power rating ref)
DIM @ 2 Ohm / 14V4 / STEREO:	< 0.02 % (Power rating ref)
DIM @ 4 Ohm / 14V4 / BRIDGE:	< 0.02% (Power rating ref)
DC-DC converter typology:	Unregulated
Conversion frequency:	40 KHz ($\pm 6\%$)
Absolute maximum operation supply voltage range:	10 V \div 16 V
Recommended operation supply voltage range:	11 V \div 14.4 V
Undervoltage cutoff Threshold:	8.5 V
Mute delay time:	3 secs.
Secondary voltages (Amp. / Driver / Pre.) @ 14.4 Volt:	± 39 V / ± 7.5 V / ± 14.8 V
Max output offset voltage (each channel):	± 20 mV
Standby current @ 14.4 Volt:	< 2 mA
Quiescent consumption @ 12.6 Volt / 14.4 Volt:	0.49 A / 0.54 A (no idle current regulation)
Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal):	0.1 A (each channel)
Quiescent consumption @ 12.6 Volt / 14.4 Volt:	0.65 A / 0.74 A (with 0.2 A total idle current regulation)
Thermal protection consumption @ 14.4 Volt:	0.67 A
Battery ground vs secondary ground decoupling:	R.C.D. network (56R // 100n // double clamp diodes)
Body ground vs battery ground decoupling:	R.C. network (100R // 100n)
Bandwidth (-3dB \div 1 Watt) @ 14.4 Volt (4 Ohm STEREO):	5 Hz \div 150 KHz
Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref:	0.17 V \div 4.3 V
Input impedance @ 1 KHz (STEREO input):	11 KOhm
Input capacitance @ 1 KHz (STEREO input):	220 pF
Input ground decoupling:	R.C. network (15R // 100n)
S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:	91 dB
S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:	107 dB ("A" weighted)
Eq. Input noise (AP filter 10 Hz - 500 KHz):	4.8 uV
Eq. Input noise (AP filter 10 Hz - 22 KHz):	0.76 uV ("A" weighted)
Channel separation@ 100Hz / 1KHz / 10KHz – Power rating ref:	88 dB / 74 dB / 57 dB
Xover functions:	HIGH Pass & LOW Pass (BAND Pass allowed) (20 \div 150Hz) & (45 \div 300Hz)
Filter slope - Filter "Q":	12 dB/oct - 0.6 (Stereo & Mono)
Thermal cutoff Threshold:	88 °C (± 5 °C)
INTELLISPEED® start Threshold:	50 °C (± 5 °C)
Damping factor @ 100 Hz (4 Ohm STEREO) - 10 Watt ref:	391 / 299 (Right / Left)
Damping factor @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:	458 / 335 (Right / Left)
Damping factor @ 10 KHz (4 Ohm STEREO) - 10 Watt ref:	290 / 219 (Right / Left)
Output impedance @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:	8.7 mOhm / 11.9 mOhm (Right / Left)
Overload cutoff @ 14.4 Volt:	1 Ohm / 2 Ohm (Stereo / Bridged)
Suggested fuse:	2 x 30 A (Internal)