

## CEA-2006-A SPECIFICATIONS

**POWER RATING: 500 Watts per channel @ 4 Ohms < 1% THD+N**  
**SN RATIO: >91 dBA (reference: 1 Watt into 4 Ohms)**

## GT Trading SPECIFICATIONS (Tcase = 25 °C / 4 Ohms stereo / 0.2V input level if no otherwise specified / All channels operative)

<b>POWER RATINGS:</b>	<b>500Watts per channel @ 4 Ohms &lt; 0.3% THD+N</b> <b>850Watts per channel @ 2 Ohms &lt; 0.3% THD+N</b>
<i>Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:</i>	<b>500 W x 1 – 35 A – 82 % efficiency</b>
<i>Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:</i>	<b>850 W x 1 – 79 A – 79 % efficiency</b>
<i>THD @ 4 Ohm / 14V4 / STEREO:</i>	<b>&lt; 0.04 % (1KHz / Power rating ref)</b>
<i>THD @ 2 Ohm / 14V4 / STEREO:</i>	<b>&lt; 0.04 % (1KHz / Power rating ref)</b>
<i>THD @ 4 Ohm / 14V4 / BRIDGE:</i>	<b>&lt; 0.04 % (1KHz / Power rating ref)</b>
<i>DIM @ 4 Ohm / 14V4 / STEREO:</i>	<b>&lt; 0.003 % (Power rating ref)</b>
<i>DIM @ 2 Ohm / 14V4 / STEREO:</i>	<b>&lt; 0.004 % (Power rating ref)</b>
<i>DIM @ 4 Ohm / 14V4 / BRIDGE:</i>	<b>&lt; 0.004 % (Power rating ref)</b>
<i>DC-DC converter typology:</i>	<b>Regulated, PWM</b>
<i>Conversion frequency:</i>	<b>52 KHz (± 6 %)</b>
<i>Absolute maximum operation supply voltage range:</i>	<b>10 V ÷ 16 V</b>
<i>Recommended operation supply voltage range:</i>	<b>11 V ÷ 14.4 V</b>
<i>Undervoltage cutoff Threshold / delay time:</i>	<b>10 V / 60 secs.</b>
<i>Overvoltage cutoff Threshold / delay time:</i>	<b>16 V / 10 secs.</b>
<i>Mute delay time:</i>	<b>3 secs.</b>
<i>±Vcc span regulation @ 14.4 Volt:</i>	<b>54 V</b>
<i>Secondary voltages (Amp. / Bias / Pre.) @ 14.4 Volt:</i>	<b>±27 V / ±4.4 V / ±14.7 V</b>
<i>Max output offset voltage (each channel):</i>	<b>±20 mV</b>
<i>Standby current @ 14.4 Volt:</i>	<b>&lt; 1 mA (0.7 mA typ.)</b>
<i>Quiescent consumption @ 12.6 Volt / 14.4 Volt:</i>	<b>0.9 A / 0.82 A (no idle current regulation)</b>
<i>Idle current regulation @ 14.4 Volt (4 Ohm MONO - no signal):</i>	<b>0.1 A per channel</b>
<i>Quiescent consumption @ 12.6 Volt / 14.4 Volt:</i>	<b>1.34 A / 1.22 A (with 0.4 A total idle current regulation)</b>
<i>Thermal protection consumption @ 14.4 Volt:</i>	<b>0.9 A</b>
<i>Battery ground vs secondary ground decoupling:</i>	<b>R.C. network (22R * 100n)</b>
<i>Body ground vs battery ground decoupling:</i>	<b>R.C. network (15R // 100n)</b>
<i>Bandwidth (-3dB ÷ 1 Watt) @ 14.4 Volt (4 Ohm MONO):</i>	<b>5 Hz ÷ 500 Hz</b>
<i>Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref:</i>	<b>0.2 V ÷ 5.3 V (0.2 V ÷ 5 V declared)</b>
<i>Input impedance @ 1 KHz (STEREO input):</i>	<b>10 KOhm</b>
<i>Input capacitance @ 1 KHz (STEREO input):</i>	<b>220 pF</b>
<i>Input ground decoupling:</i>	<b>R.C. network (15R // 100n)</b>
<i>S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:</i>	<b>91 dB</b>
<i>S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:</i>	<b>107 dB (“A” weighted)</b>
<i>Eq. Input noise (AP filter 10 Hz - 500 KHz):</i>	<b>5.6 uV</b>
<i>Eq. Input noise (AP filter 10 Hz - 22 KHz):</i>	<b>0.9 uV (“A” weighted)</b>
<i>Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref:</i>	<b>83 dB / 79 dB / 65 dB</b>
<i>Xover functions:</i>	Same features for Section A & Section B; <b>HIGH Pass (15Hz – 500Hz) or LOW Pass (50Hz – 4000Hz)</b>
<i>Filter slope - Filter "Q":</i>	<b>12 dB/oct - 0.7</b>
<i>Thermal cutoff / recovery Threshold:</i>	<b>90 / 70 °C</b>
<i>Damping factor @ 100 Hz (4 Ohm MONO) - 10 Watt ref:</i>	<b>525 / 1585 (R/L section A) ÷ 488 / 1604 (R/L section B)</b>
<i>Damping factor @ 1 KHz (4 Ohm MONO) - 10 Watt ref:</i>	<b>527 / 1272 (R/L section A) ÷ 530 / 1608 (R/L section B)</b>
<i>Damping factor @ 10 KHz (4 Ohm MONO) - 10 Watt ref:</i>	<b>331 / 488 (R/L section A) ÷ 334 / 642 (R/L section B)</b>
<i>Output impedance @ 1 KHz (4 Ohm MONO) - 10 Watt ref:</i>	<b>7.6 mOhm / 3.1 mOhm &amp; 7.5 mOhm / 2.5 mOhm</b>
<i>Overload cutoff @ 14.4 Volt:</i>	<b>2 Ohm / 4 Ohm (Stereo / Bridged)</b>
<i>Current consumption @ 2 Ohms / 12.6 Volt / STEREO:</i>	<b>79A (Power rating ref)</b>
<i>Suggested fuse:</i>	<b>80A</b>

(\*) Input signal: 100Hz, Burst 40 cycles, Interval 120 cycles, 0% Low level. Power measured after 10 cycles.