

**CEA-2006-A SPECIFICATIONS**

**POWER RATING: 255 Watts per channel @ 4 Ohms < 1% THD+N**  
**SN RATIO: >85 dBA (reference: 1 Watt into 4 Ohms)**

**GT Trading SPECIFICATIONS (Tcase = 25 °C / 4 Ohms stereo / 0.2V input level if no otherwise specified)****POWER RATINGS:**

245 Watts per channel @ 4 Ohms < 0.3% THD+N  
 470 Watts per channel @ 2 Ohms < 0.3% THD+N  
 875 Watts<sup>(\*)</sup> per channel @ 1 Ohms < 0.3% THD+N  
 940 Watts BTL mode @ 4 Ohms < 0.3% THD+N  
 1750 Watts<sup>(\*)</sup> BTL mode @ 2 Ohms < 0.3% THD+N  
 3500 Watts<sup>(\*)</sup> Serial®Power mode @ 4 Ohms < 0.3% THD+N

*Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:*  
*Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:*  
*Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD:*

258 W x 2 – 53.4 A – 67.1 % efficiency  
 500 W x 2 – 108.4 A – 64 % efficiency  
 1000 W x 1 – 108.4 A – 64 % efficiency

*THD @ 4 Ohm / 14V4 / STEREO:*  
*THD @ 2 Ohm / 14V4 / STEREO:*  
*THD @ 4 Ohm / 14V4 / BRIDGE:*  
*DIM @ 4 Ohm / 14V4 / STEREO:*  
*DIM @ 2 Ohm / 14V4 / STEREO:*  
*DIM @ 4 Ohm / 14V4 / BRIDGE:*

< 0.03 % (1KHz / Power rating ref)  
 < 0.03 % (1KHz / Power rating ref)  
 < 0.03 % (1KHz / Power rating ref)  
 < 0.005 % (Power rating ref)  
 < 0.005 % (Power rating ref)  
 < 0.005 % (Power rating ref)

**DC-DC converter typology:****Conversion frequency:****Regulated, PWM**

52 KHz (± 6 %)

**Absolute maximum operation supply voltage range:**

10 V ÷ 16 V

**Recommended operation supply voltage range:**

11 V ÷ 14.4 V

**Undervoltage cutoff Threshold / delay time:**

10 V / 60 secs.

**Overvoltage cutoff Threshold / delay time:**

16 V / 10 secs.

**Mute delay time:**

3 secs.

**±Vcc span regulation @ 14.4 Volt:**

92.5 V

**Secondary voltages (Amp. / Bias / Pre.) @ 14.4 Volt:**

±46.25 V / ±4.3 V / ±14.9 V

**Max output offset voltage (each channel):**

±20 mV

**Standby current @ 14.4 Volt:**

&lt; 1 mA (0.7 mA typ.)

**Quiescent consumption @ 12.6 Volt / 14.4 Volt:**

1.1 A / 1 A (no idle current regulation)

**Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal):**

0.25 A per channel

**Quiescent consumption @ 12.6 Volt / 14.4 Volt:**

1.65 A / 1.5 A (with 0.5 A total idle current regulation)

**Thermal protection consumption @ 14.4 Volt:**

1.4 A

**Battery ground vs secondary ground decoupling:**

R.C. network (22R \* 100n)

**Body ground vs battery ground decoupling:**

R.C. network (15R // 100n)

**Bandwidth (-3dB ÷ 1 Watt) @ 14.4 Volt (4 Ohm STEREO):**

5 Hz ÷ 180 KHz

**Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref:**

0.2 V ÷ 5.3 V (0.2 V ÷ 5 V declared)

**Input impedance @ 1 KHz (STEREO input):**

10 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:**

86 dB

**S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:**

108 dB (“A” weighted)

**Eq. Input noise (AP filter 10 Hz - 500 KHz):**

10 uV

**Eq. Input noise (AP filter 10 Hz - 22 KHz):**

0.8 uV (“A” weighted)

**Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref:**

102 dB / 87 dB / 67 dB

**Xover functions:****INPUT Passthrough;****Xover frequency range:****HIGH Pass & LOW Pass (BAND Pass allowed)****Xover slope - Xover "Q":**

(60÷80÷100÷120Hz &amp; 60÷70÷80÷90Hz) or AQXM2 modules

12 dB/oct - 0.7/1.2 [HP] &amp; 12 dB/oct - 0.7 [LP] (Stereo &amp; Mono)

24 dB/oct - 0.5/1.4 [HP] &amp; 24 dB/oct - 0.4 [LP] (Mono only)

90 / 70 °C

**Thermal cutoff / recovery Threshold:**

45 / 40 / 70 °C

**INTELLISPEED® start / stop / max force Threshold:****Damping factor @ 100 Hz (4 Ohm STEREO) - 10 Watt ref:**

1628 / 2169 (Right / Left)

**Damping factor @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:**

1635 / 2175 (Right / Left)

**Damping factor @ 10 KHz (4 Ohm STEREO) - 10 Watt ref:**

652 / 723 (Right / Left)

**Output impedance @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:**

2.45 mOhm / 1.84 mOhm (Right / Left)

**Overload cutoff @ 14.4 Volt:**

1 Ohm / 2 Ohm (Stereo / Bridged)

**Current consumption @ 2 Ohms / 12.6 Volt / STEREO:**

121.9 A (Power rating ref)

**Suggested fuse:**

125 A (External)

(\*) Input signal: 1KHz, Burst 40 cycles, Interval 120 cycles, 0% Low level. Power measured after 10 cycles.