

**CEA-2006-A SPECIFICATIONS**

**POWER RATING:** 165 Watts per channel @ 4 Ohms < 1% THD+N  
**SN RATIO:** >88 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:**

155 Watts per channel @ 4 Ohms < 0.3% THD+N	166 W x 2 – 35.7 A – 64.6 % efficiency
305 Watts per channel @ 2 Ohms < 0.3% THD+N	318 W x 2 – 73.6 A – 60.0 % efficiency
555 Watts <sup>(*)</sup> per channel @ 1 Ohms < 0.3% THD+N	636 W x 1 – 73.6 A – 60.0 % efficiency
615 Watts BTL mode @ 4 Ohms < 0.3% THD+N	
1110 Watts <sup>(*)</sup> BTL mode @ 2 Ohms < 0.3% THD+N	
2220 Watts <sup>(*)</sup> Serial <sup>®</sup> Power mode @ 4 Ohms < 0.3% THD+N	

**Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:** 166 W x 2 – 35.7 A – 64.6 % efficiency  
**Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:** 318 W x 2 – 73.6 A – 60.0 % efficiency  
**Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD:** 636 W x 1 – 73.6 A – 60.0 % efficiency

**THD @ 4 Ohm / 14V4 / STEREO:** < 0.03 % (1KHz / Power rating ref)  
**THD @ 2 Ohm / 14V4 / STEREO:** < 0.03 % (1KHz / Power rating ref)  
**THD @ 4 Ohm / 14V4 / BRIDGE:** < 0.03 % (1KHz / Power rating ref)  
**DIM @ 4 Ohm / 14V4 / STEREO:** < 0.004 % (Power rating ref)  
**DIM @ 2 Ohm / 14V4 / STEREO:** < 0.004 % (Power rating ref)  
**DIM @ 4 Ohm / 14V4 / BRIDGE:** < 0.003 % (Power rating ref)

**DC-DC converter typology:** Regulated, PWM  
**Conversion frequency:** 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:** 74 V  
**Secondary voltages (Amp. / Bias / Pre.) @ 14.4 Volt:** ±37 V / ±3.6 V / ±14.7 V  
**Max output offset voltage (each channel):** ±20 mV  
**Standby current @ 14.4 Volt:** < 1 mA (0.7 mA typ.)  
**Quiescent consumption @ 12.6 Volt / 14.4 Volt:** 0.79 A / 0.73 A (no idle current regulation)  
**Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal):** 0.15 A per channel  
**Quiescent consumption @ 12.6 Volt / 14.4 Volt:** 1.12 A / 1.03 A (with 0.3 A total idle current regulation)  
**Thermal protection consumption @ 14.4 Volt:** 1.3 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 ÷ 175 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:** 91 dB  
**S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:** 109 dB (“A” weighted)  
**Eq. Input noise (AP filter 10 Hz - 500 KHz):** 5.64 uV  
**Eq. Input noise (AP filter 10 Hz - 22 KHz):** 0.71 uV (“A” weighted)  
**Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref:** 101 dB / 89 dB / 68 dB  
**Xover functions:** INPUT Passthrough;  
HIGH Pass & LOW Pass (BAND Pass allowed)  
(60÷80÷100÷120Hz & 60÷70÷80÷90Hz) or AQXM2 modules  
**Xover frequency range:** 12 dB/oct - 0.7/1.2 [HP] & 12 dB/oct - 0.7 [LP] (Stereo & Mono)  
24 dB/oct - 0.5/1.4 [HP] & 24 dB/oct - 0.4 [LP] (Mono only)  
**Xover slope - Xover "Q":** 90 / 70 °C

**Thermal cutoff / recovery Threshold:** 45 / 40 / 70 °C  
**INTELLISPEED<sup>®</sup> start / stop / max force Threshold:** 1579 / 1582 (Right / Left)  
**Damping factor @ 100 Hz (4 Ohm STEREO) - 10 Watt ref:** 1584 / 1587 (Right / Left)  
**Damping factor @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:** 526 / 576 (Right / Left)  
**Damping factor @ 10 KHz (4 Ohm STEREO) - 10 Watt ref:** 2.53 mOhm / 2.52 mOhm (Right / Left)  
**Output impedance @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:** 1 Ohm / 2 Ohm (Stereo / Bridged)  
**Overload cutoff @ 14.4 Volt:** 81.4 A (Power rating ref)  
**Current consumption @ 2 Ohms / 12.6 Volt / STEREO:** 80 A (External)  
**Suggested fuse:**

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