

CEA-2006-A SPECIFICATIONS

POWER RATING: 400 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:**

400 Watts per channel @ 4 Ohms < 0.3% THD+N
760 Watts per channel @ 2 Ohms < 0.3% THD+N
1400Watts^(*) per channel @ 1 Ohms < 0.3% THD+N
1600 Watts BTL mode @ 4 Ohms < 0.3% THD+N
2800 Watts^(*) BTL mode @ 2 Ohms < 0.3% THD+N
5600 Watts^(*) 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:

400 W x 2 – 74.1 A – 65.8 % efficiency
760W x 2 – 149.3 A – 63.7 % efficiency
1600W x 1 – 149.3 A – 63.7 % 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)
< 0.006 % (Power rating ref)
< 0.006 % (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:****108 V****Secondary voltages (Amp. / Bias / Pre.) @ 14.4 Volt:****±54 V / ±4 V / ±15 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:****1.2 A / 1.12 A (no idle current regulation)****Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal):****0.35 A per channel****Quiescent consumption @ 12.6 Volt / 14.4 Volt:****1.96 A / 1.82 A (with 0.7 A total idle current regulation)****Thermal protection consumption @ 14.4 Volt:****1.9 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 ÷ 165 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:****78 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):****25.2 uV****Eq. Input noise (AP filter 10 Hz - 22 KHz):****0.8 uV (“A” weighted)****Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref:****90 dB / 93 dB / 71 dB****Xover functions:****INPUT Passthrough;****Xover frequency range:****HIGH Pass & LOW Pass (BAND Pass allowed)****Xover slope - Xover "Q":****(60÷80÷100÷120Hz & 60÷70÷80÷90Hz) or AQXM2 modules****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)****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:****2119 / 2132 (Right / Left)****Damping factor @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:****2129 / 2141 (Right / Left)****Damping factor @ 10 KHz (4 Ohm STEREO) - 10 Watt ref:****708 / 712 (Right / Left)****Output impedance @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:****1.9 mOhm / 1.9 mOhm (Right / Left)****Overload cutoff @ 14.4 Volt:****1 Ohm / 2 Ohm (Stereo / Bridged)****Current consumption @ 2 Ohms / 12.6 Volt / STEREO:****163 A (Power rating ref)****Suggested fuse:****175 A (External)**

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