

CEA-2006-A SPECIFICATIONS

POWER RATING: 1000 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)

POWER RATINGS:

200 Watts mono @ 4 Ohms < 0.3% THD+N
350 Watts mono @ 2 Ohms < 0.3% THD+N
500 Watts mono @ 1 Ohms < 0.3% THD+N
400 Watts Max mode @ 4 Ohms < 0.3% THD+N
700 Watts Max mode @ 2 Ohms < 0.3% THD+N
1000 Watts Max mode @ 1 Ohms < 0.3% THD+N

<i>Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:</i>	500 W x 1 – 75 A – 72 % efficiency
<i>Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD:</i>	750 W x 1 – 72 A – 69 % efficiency
<i>Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD:</i>	1000 W x – 69 A – 69% efficiency

<i>THD @ 4 Ohm / 14V4 / STEREO:</i>	< 0.04 % (1KHz / Power rating ref)
<i>THD @ 2 Ohm / 14V4 / STEREO:</i>	< 0.04 % (1KHz / Power rating ref)
<i>THD @ 4 Ohm / 14V4 / BRIDGE:</i>	< 0.04 % (1KHz / Power rating ref)
<i>DIM @ 4 Ohm / 14V4 / STEREO:</i>	< 0.003 % (Power rating ref)
<i>DIM @ 2 Ohm / 14V4 / STEREO:</i>	< 0.004 % (Power rating ref)
<i>DIM @ 4 Ohm / 14V4 / BRIDGE:</i>	< 0.004 % (Power rating ref)

<i>DC-DC converter typology:</i>	Regulated, PWM
<i>Conversion frequency:</i>	52 KHz (± 6 %)
<i>Absolute maximum operation supply voltage range:</i>	10 V ÷ 16 V
<i>Recommended operation supply voltage range:</i>	11 V ÷ 14.4 V
<i>Undervoltage cutoff Threshold / delay time:</i>	10 V / 60 secs.
<i>Overvoltage cutoff Threshold / delay time:</i>	16 V / 10 secs.
<i>Mute delay time:</i>	3 secs.
<i>±Vcc span regulation @ 14.4 Volt:</i>	36 V
<i>Secondary voltages (Amp. / Bias / Pre.) @ 14.4 Volt:</i>	±27 V / ±4.4 V / ±14.7 V
<i>Max output offset voltage (each channel):</i>	±20 mV
<i>Standby current @ 14.4 Volt:</i>	< 1 mA (0.7 mA typ.)
<i>Quiescent consumption @ 12.6 Volt / 14.4 Volt:</i>	0.9 A / 0.82 A (no idle current regulation)
<i>Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal):</i>	0.1 A per channel
<i>Quiescent consumption @ 12.6 Volt / 14.4 Volt:</i>	1.34 A / 1.22 A (with 0.4 A total idle current regulation)
<i>Thermal protection consumption @ 14.4 Volt:</i>	0.9 A
<i>Battery ground vs secondary ground decoupling:</i>	R.C. network (22R * 100n)
<i>Body ground vs battery ground decoupling:</i>	R.C. network (15R // 100n)
<i>Bandwidth (-3dB ÷ 1 Watt) @ 14.4 Volt (4 Ohm STEREO):</i>	5 Hz ÷ 150 KHz
<i>Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref:</i>	0.2 V ÷ 5.3 V (0.2 V ÷ 5 V declared)
<i>Input impedance @ 1 KHz (STEREO input):</i>	10 KOhm
<i>Input capacitance @ 1 KHz (STEREO input):</i>	220 pF
<i>Input ground decoupling:</i>	R.C. network (15R // 100n)
<i>S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:</i>	91 dB
<i>S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:</i>	107 dB (“A” weighted)
<i>Eq. Input noise (AP filter 10 Hz - 500 KHz):</i>	5.6 uV
<i>Eq. Input noise (AP filter 10 Hz - 22 KHz):</i>	0.9 uV (“A” weighted)
<i>Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref:</i>	83 dB / 79 dB / 65 dB
<i>Xover functions:</i>	Same features for Section A & Section B; HIGH Pass (15Hz – 500Hz) or LOW Pass (50Hz – 4000Hz) or BAND Pass (15Hz – 4000 Hz)

<i>Filter slope - Filter "Q":</i>	12 dB/oct - 0.7
<i>Thermal cutoff / recovery Threshold:</i>	90 / 70 °C
<i>Damping factor @ 100 Hz (4 Ohm STEREO) - 10 Watt ref:</i>	525 / 1585 (R/L section A) ÷ 488 / 1604 (R/L section B)
<i>Damping factor @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:</i>	527 / 1272 (R/L section A) ÷ 530 / 1608 (R/L section B)
<i>Damping factor @ 10 KHz (4 Ohm STEREO) - 10 Watt ref:</i>	331 / 488 (R/L section A) ÷ 334 / 642 (R/L section B)
<i>Output impedance @ 1 KHz (4 Ohm STEREO) - 10 Watt ref:</i>	7.6 mOhm / 3.1 mOhm & 7.5 mOhm / 2.5 mOhm
<i>Overload cutoff @ 14.4 Volt:</i>	2 Ohm / 4 Ohm (Stereo / Bridged)
<i>Current consumption @ 2 Ohms / 12.6 Volt / STEREO:</i>	50A (Power rating ref)
<i>Suggested fuse:</i>	2 x 30 A

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