

CEA-2006-A SPECIFICATIONS

POWER RATING: 115 Watts per channel @ 4 Ohms < 1% THD+N
SN RATIO: >89 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:**

105 Watts per channel @ 4 Ohms < 0.3% THD+N
 205 Watts per channel @ 2 Ohms < 0.3% THD+N
 365 Watts^(*) per channel @ 1 Ohms < 0.3% THD+N
 410 Watts BTL mode @ 4 Ohms < 0.3% THD+N
 730 Watts^(*) BTL mode @ 2 Ohms < 0.3% THD+N
 1460 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:

116 W x 2 – 25.1 A – 64.2 % efficiency
 218 W x 2 – 50.8 A – 59.6 % efficiency
 436 W x 1 – 50.8 A – 59.6 % 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)
 < 0.04 % (1KHz / Power rating ref)
 < 0.03 % (1KHz / Power rating ref)
 < 0.003 % (Power rating ref)
 < 0.004 % (Power rating ref)
 < 0.003 % (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:

62.5 V

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

±31.25 V / ±4.3 V / ±14.9 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:

0.68 A / 0.6 A (no idle current regulation)

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

0.1 A per channel

Quiescent consumption @ 12.6 Volt / 14.4 Volt:

0.91 A / 0.8 A (with 0.2 A total idle current regulation)

Thermal protection consumption @ 14.4 Volt:

0.75 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 ÷ 170 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:

89 dB

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

107 dB (“A” weighted)

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

7.1 uV

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

0.9 uV (“A” weighted)

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

106 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 & 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

45 / 40 / 70 °C

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

1589 / 1591 (Right / Left)

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

1595 / 1595 (Right / Left)

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

530 / 489 (Right / Left)

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

2.51 mOhm / 2.51 mOhm (Right / Left)

Overload cutoff @ 14.4 Volt:

1 Ohm / 2 Ohm (Stereo / Bridged)

Current consumption @ 2 Ohms / 12.6 Volt / STEREO:

55.8 A (Power rating ref)

Suggested fuse:

60 A (External)

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