

F4>650 (IV) PRODUCT SPECIFICATIONS [Rev. 1 - Last update: 2006/07/14]

CEA-2006-A SPECIFICATIONS

POWER RATING: **170 Watts per channel @ 4 Ohms < 1% THD+N**
SN RATIO: **>87 dBA (reference: 1 Watt into 4 Ohms)**

GT Trading SPECIFICATIONS (*T_{case} = 25 °C / 4 Ohms stereo / 0.17V input level if not otherwise specified*)

POWER RATINGS: **170 Watts per channel @ 4 Ohms < 0.3% THD+N**
260 Watts per channel @ 2 Ohms < 0.3% THD+N
520 Watts BTL mode @ 4 Ohms < 0.3% THD+N

Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD: **170 W x 4 – 65.5A – 67.8 % efficiency**
Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD: **260 W x 4 – 115 A – 59.7 % efficiency**
Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD: **520 W x 2 – 115 A – 59.7 % efficiency**

THD @ 4 Ohm / 14V4 / STEREO: **< 0.04 % (1KHz / Power rating ref)**
THD @ 2 Ohm / 14V4 / STEREO: **< 0.04 % (1KHz / Power rating ref)**
THD @ 4 Ohm / 14V4 / BRIDGE: **< 0.04 % (1KHz / Power rating ref)**
DIM @ 4 Ohm / 14V4 / STEREO: **< 0.02 % (Power rating ref)**
DIM @ 2 Ohm / 14V4 / STEREO: **< 0.02 % (Power rating ref)**
DIM @ 4 Ohm / 14V4 / BRIDGE: **< 0.02% (Power rating ref)**

DC-DC converter typology: **Unregulated**
Conversion frequency: **40 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: **8.5 V**
Mute delay time: **3 secs.**
Secondary voltages (Amp. / Driver / Pre.) @ 14.4 Volt: **±39.8 V / ±7.5 V / ±14.5 V**
Max output offset voltage (each channel): **±20 mV**
Standby current @ 14.4 Volt: **< 2 mA**
Quiescent consumption @ 12.6 Volt / 14.4 Volt: **0.91 A / 1 A (no idle current regulation)**
Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal): **0.1 A (each channel)**
Quiescent consumption @ 12.6 Volt / 14.4 Volt: **1.25 A / 1.4 A (with 0.4 A total idle current regulation)**
Thermal protection consumption @ 14.4 Volt: **1.27 A**
Battery ground vs secondary ground decoupling: **R.C.D. network (56R // 100n // double clamp diodes)**
Body ground vs battery ground decoupling: **R.C. network (100R // 100n)**
Bandwidth (-3dB ÷ 1 Watt) @ 14.4 Volt (4 Ohm STEREO): **5 Hz ÷ 150 KHz**
Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref: **0.17 V ÷ 4.3 V**
Input impedance @ 1 KHz (STEREO input): **11 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: **107 dB (“A” weighted)**
Eq. Input noise (AP filter 10 Hz - 500 KHz): **4.8 uV**
Eq. Input noise (AP filter 10 Hz - 22 KHz): **0.76 uV (“A” weighted)**
Channel separation @ 100Hz / 1KHz / 10KHz – Power rating ref: **74 dB / 70 dB / 55 dB**
Xover functions: **HIGH Pass or LOW Pass (BAND Pass not allowed)**
(45 ÷ 300Hz)
12 dB/oct - 0.7 (Stereo & Mono)
88 °C (±5°C)
50 °C (±5°C)
182 / 166 ÷ 600 / 348 (Right / Left)
185 / 168 ÷ 578 / 334 (Right / Left)
150 / 132 ÷ 302 / 235 (Right / Left)
21.6 mOhm / 23.9 mOhm ÷ 6.9 mOhm / 12 mOhm
1 Ohm / 2 Ohm (Stereo / Bridged)
3 x 40 A (Internal)