

# F2>600 (IV) PRODUCT SPECIFICATIONS [Rev. 1 - Last update: 2006/07/10]

## CEA-2006-A SPECIFICATIONS

POWER RATING: **300 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 / 0.17V input level if no otherwise specified)

POWER RATINGS: **300 Watts per channel @ 4 Ohms < 0.3% THD+N**  
**460 Watts per channel @ 2 Ohms < 0.3% THD+N**  
**1000 Watts BTL mode @ 4 Ohms < 0.3% THD+N**  
**1500 Watts BTL mode @ 4 Ohms < 0.3% THD+N**

Power output @ 4 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD: **300 W x 2 – 50.5A – 69.6 % efficiency**  
Power output @ 2 Ohm / 14V4 / 1KHz / STEREO / 0.3% THD: **460 W x 2 – 85.3 A – 64.4 % efficiency**  
Power output @ 4 Ohm / 14V4 / 1KHz / BRIDGE / 0.3% THD: **1000 W x 1 – 90.0 A – 64.4 % 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: **< 0.01 % (Power rating ref)**  
DIM @ 2 Ohm / 14V4 / STEREO: **< 0.04 % (Power rating ref)**  
DIM @ 4 Ohm / 14V4 / BRIDGE: **< 0.01 % (Power rating ref)**

DC-DC converter typology: **Unregulated**  
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: **8.5 V**  
Mute delay time: **3 secs.**  
Secondary voltages (Amp. / Driver / Pre.) @ 14.4 Volt: **±47.4 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: **0.8 A / 0.91 A (no idle current regulation)**  
Idle current regulation @ 14.4 Volt (4 Ohm STEREO - no signal): **0.25 A (each channel)**  
Quiescent consumption @ 12.6 Volt / 14.4 Volt: **1.19 A / 1.41 A (with 0.5 A total idle current regulation)**  
Thermal protection consumption @ 14.4 Volt: **1.05 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: **84 dB / 73 dB / 59 dB**  
Xover functions: **HIGH Pass & LOW Pass (BAND Pass allowed)**  
(20 ÷ 150Hz) & (45 ÷ 300Hz)  
**12 dB/oct - 0.6 (Stereo & Mono)**  
Filter slope - Filter "Q": **88 °C (±5°C)**  
Thermal cutoff Threshold: **50 °C (±5°C)**  
INTELLISPEED® start Threshold: **606 / 230 (Right / Left)**  
Damping factor @ 100 Hz (4 Ohm STEREO) - 10 Watt ref: **493 / 221 (Right / Left)**  
Damping factor @ 1 KHz (4 Ohm STEREO) - 10 Watt ref: **532 / 194 (Right / Left)**  
Damping factor @ 10 KHz (4 Ohm STEREO) - 10 Watt ref: **8.1 mOhm / 18.1 mOhm (Right / Left)**  
Output impedance @ 1 KHz (4 Ohm STEREO) - 10 Watt ref: **1 Ohm / 2 Ohm (Stereo / Bridged)**  
Overload cutoff @ 14.4 Volt: **3 x 30 A (Internal)**  
Suggested fuse: