

# NIKO 1.40000 PRODUCT SPECIFICATIONS

[Rev. 1 - Last update: 2020-09-27]

## CEA-2006-A SPECIFICATIONS

**POWER RATING: 15000 Watts @ 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 / All channels operative)

### POWER RATINGS:

**15000 Watts BTL mode @ 4 Ohms < 0.3% THD+N**  
**25000 Watts BTL mode @ 2 Ohms < 0.3% THD+N**  
**40000 Watts BTL mode @ 1 Ohms < 0.3% THD+N**  
**Serial®Power mode not available.**

*Power output @ 4 Ohm / 14V4 / 100Hz / BRIDGE / 0.3% THD:*  
*Power output @ 2 Ohm / 14V / 100Hz / BRIDGE / 0.3% THD:*  
*Power output @ 1 Ohm / 14V4 / 100Hz / BRIDGE / 0.3% THD:*

**15000 W x 1 – 1100 A – 85 % efficiency**  
**25000W x 1 – 1800 A – 82 % efficiency**  
**40000 W x 1 – 3000 A 80 % efficiency**

*THD @ 4 Ohm / 14V4 / MONO :*  
*THD @ 2 Ohm / 14V4 / MONO :*  
*THD @ 4 Ohm / 14V4 / MONO:*

**< 0.04 % (40Hz / Power rating ref)**  
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### DC-DC converter typology:

#### Conversion frequency:

**Regulated, PWM**

**50 KHz (± 6 %)**

#### Absolute maximum operation supply voltage range:

**9,5 V ÷ 16 V**

#### Recommended operation supply voltage range:

**11 V ÷ 14.4 V**

#### Undervoltage cutoff Threshold / delay time:

**8,5 V / 30 secs.**

#### Overvoltage cutoff Threshold / delay time:

**16 V / 10 secs.**

#### Mute delay time:

**5 secs.**

#### ±Vcc span regulation @ 14.4 Volt:

**250 V**

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

**±250 V / ±15 V / ±15 V**

#### Max output offset voltage (each channel):

**±1 mV**

#### Standby current @ 14.4 Volt:

**< 1 mA (0.7 mA typ.)**

#### Quiescent consumption @ 12.6 Volt / 14.4 Volt:

**3 A / 3,8 A**

#### Thermal protection consumption @ 14.4 Volt:

**3,5 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 ÷ 400 Hz**

#### Input sensitivity @ 14.4 Volt (4 Ohm STEREO) – Power rating ref:

**0.3 V ÷ 5.3 V (0.2 V ÷ 5 V declared)**

#### Input impedance @ 100 Hz (STEREO input):

**10 KOhm**

#### Input capacitance @ 100 Hz (STEREO input):

**220 pF**

#### Input ground decoupling:

**R.C. network (15R // 100n)**

#### S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:

**72 dB**

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

**99 dB (“A” weighted)**

#### Xover functions:

**NOT AVAILABLE**

#### Thermal cutoff / recovery Threshold:

**82 / 80 °C**

#### INTELLISPEED® start / stop / max force Threshold:

**40 / 40 / 82 °C**

#### Overload cutoff @ 14.4 Volt:

**1 Ohm**

#### Current consumption @ 0,5 Ohms / 12.6 Volt / STEREO:

**3000 A (Power rating ref)**

#### Suggested fuse:

**800 A x 2 (External)**

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