

## PRO 1|10

Single channel, Full Range, D-class amplifier

[ Rev. 0.0 – 2018/06 ]

### CEA-2006-A SPECIFICATION

POWER RATING: **670 Watt @ 4 Ohm < 1% THD+N**  
 SN RATIO: **>80 dBA (DDSP) [reference: 1 Watt into 4 Ohm]**

### PRO 1|10 - 16V ready

|                                 |       | all power measurements are intended @ 1kHz – 1% THD |                       |        |        |        |
|---------------------------------|-------|---|-----------------------|--------|--------|--------|
|                                 |       | low   | optimal working range |        |        | high   |
|                                 |       | 11  | 12                    | 13,3   | 14,4   | 16     |
| Battery voltage                 | load  |   |                       |        |        |        |
|                                 |       |   |                       |        |        |        |
| SOUND mode<br>(default)         | 4 Ohm | 291   | 354                   | 443    | 524    | 655    |
|                                 | 2 Ohm | 467   | 560                   | 705    | 830    | 1030   |
| POWER mode<br>(to be activated) | 4 Ohm | 381   | 460                   | 566    | 669    | 830    |
|                                 | 2 Ohm | 560   | 676                   | 833    | 974    | 1206   |
| POWER mode<br>perc. increasing  | 4 Ohm | 30,93%  | 29,94%                | 27,77% | 27,67% | 26,72% |
|                                 | 2 Ohm | 19,91%  | 20,71%                | 18,16% | 17,35% | 17,09% |

Power efficiency (4 Ohm / 1% THD / 1kHz):  
 THD (4 Ohm / 100Wrms / 1kHz):

> 75 %  
 < 0.05 %

DC-DC converter typology / Conversion frequency:

Unregulated Push-Pull / 50 kHz

Supply voltage range operation:

10 V ÷ 16 V (Absolute maximum) / 11 V ÷ 14.4 V (Recommended)

Power-on/Power-off Voltage Threshold:

9 V / 7.5 V

Mute delay time:

4 sec.

Max output offset voltage:

±15 mV

Standby current:

< 1 mA (typical)

Normal Quiescent consumption (Th < 80°):

1.0 A

Overheating Mute consumption (80° < Th < 95°):

0.5 A

Thermal Protection consumption (Th > 95°):

0.15 A

Bandwidth (-3dB ÷ 1 Watt):

13 Hz ÷ 29 kHz

Input sensitivity (600 Wrms / 4 Ohm):

0.14 V ÷ 5.9 V (3.1 V in DDSP mode)

Input impedance @ 1 kHz (STEREO input):

15 KOhm (LL) / 47 Ohm (HL)

S/N ratio (AP filter 10Hz÷22kHz / DDSP / 600Wrms ref.):

108 dB

Xover functions:

LOW PASS 43 ÷ 200Hz [24 dB/oct]

Special features:

DDSP - Direct DSP (bypass all the preamplifier circuitry but the differential input interface)

HL/LL - High Level / Low Level selectable input

Single Input capability (RCA bypass capability)

Autosense (BTL mode only)

Controlled via uC - Internally controlled via Atmel Processor

80 °C (±5°C)

50°C (±5°C)

> 200 / > 200 / > 100

2 Ohm

80 A (Internal)

235 / 205 / 55

2,5 kg

Thermal cutoff Threshold:

ProSPEED® Fan Controller Threshold:

Damping factor @ 100 Hz/1 kHz/10kHz - 10 Watt ref:

Minimum allowed load:

Suggested fuse:

Size (mm):

Weight:



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