

# 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 (default)	4 Ohm	291	354	443	524	655
	2 Ohm	467	560	705	830	1030
POWER mode (to be activated)	4 Ohm	381	460	566	669	830
	2 Ohm	560	676	833	974	1206
POWER mode 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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