

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
Battery voltage		11	12	13,3	14,4	16
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:

Supply voltage range operation:

Power-on/Power-off Voltage Threshold:

Mute delay time:

Max output offset voltage:

Standby current:

Normal Quiescent consumption ($T_h < 80^\circ$):Overheating Mute consumption ($80^\circ < T_h < 95^\circ$):Thermal Protection consumption ($T_h > 95^\circ$):

Bandwidth (-3dB ÷ 1 Watt):

Input sensitivity (600 Wrms / 4 Ohm):

Input impedance @ 1 kHz (STEREO input):

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

Xover functions:

Special features:

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:

Unregulated Push-Pull / 50 kHz

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

9 V / 7.5 V

4 sec.

±15 mV

< 1 mA (typical)

1.0 A

0.5 A

0.15 A

13 Hz ÷ 29 kHz

0.14 V ÷ 5.9 V (3.1 V in DDSP mode)

15 KOhm (LL) / 47 Ohm (HL)

108 dB

LOW PASS 43 ÷ 200Hz [24 dB/oct]

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



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