

PICO 4

[Rev. 3.1 – 2019.06]

4-channel D class power amplifier

CEA-2006-A SPECIFICATIONS

POWER RATING: 90 Watt per channel @ 4 Ohm < 1% THD+N
SN RATIO: >68 dBA (reference: 1 Watt into 4 Ohm)

MOSCONI SPECIFICATIONS (*T_{case} = 25 °C @ 14.4 Volt if not otherwise specified*)TARGET POWERS:

90 Watt x 4 - ST @ 4 Ohm
 85 Watt x 2 @ 4 Ohm SE + 245 Watt x 1 @ 4 Ohm BTL
 220 Watt x 2 - BTL @ 4 Ohm

EFFECTIVE POWERS:

91 Watt (80 Watt @12V6) x 4 @ 4 Ohm / ST mode / 1% THD / 1KHz - 33,2 A
 122 Watt (95 Watt @12V6) x 4 @ 2 Ohm / ST mode / 1% THD / 1KHz - 53,2 A
 244 Watt (190 Watt @12V6) x 2 @ 4 Ohm / BTL mode / 1% THD / 1KHz - 53,2 A

THD @ 4 Ohm / ST mode:

< 0.08 % (1KHz / 20Wrms)

THD @ 4 Ohm / ST mode:

< 0.2 % (1KHz / 90% Power rating ref)

THD @ 2 Ohm / BTL mode:

< 0.03 % (1KHz / 20Wrms)

THD @ 2 Ohm / BTL mode:

< 0.2 % (1KHz / 90% Power rating ref)

DC-DC converter typology:

Unregulated

Conversion frequency:

45 KHz (± 6 %)

Absolute maximum operation supply voltage range:

10 V ÷ 16 V

Recommended operation supply voltage range:

10 V ÷ 14.4 V

Power-on/Power-off Voltage Threshold:

9.5 V / 6.5 V

Mute delay time:

3 secs

Secondary voltages (Rail / Service):

±34.4 V / ±14.8 V

Max output offset voltage (each channel):

±150 mV

Standby current:

< 0.1 mA (typical)

Idle current @ 14V4 (no signal):

0.92 A

Thermal protection consumption:

< 1 mA

Battery ground vs secondary ground decoupling:

1 KOhm

Body ground vs battery ground decoupling:

0 Ohm

Bandwidth (-3dB ÷ 1 Watt):

< 10 Hz ÷ 40 KHz

Input sensitivity (Power rating ref):

0.3 Vrms ÷ 4 Vrms [Low Level] / 1.5 Vrms ÷ 20 Vrms [High Level]

Input impedance @ 1 KHz (STEREO input):

>15 KOhm [Low Level] / 600R (or 47R dummy load by jumper)[High Level]

Ground reference (only in Low Level mode):

Open (default) or 47R to ground (by jumper)

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

29 dB

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

44 dB (“A” weighted)

Eq. Input noise (AP filter 10 Hz - 500 KHz):

11,7 mV

Eq. Input noise (AP filter 10 Hz - 22 KHz):

2 mV (“A” weighted)

Channel separation@ 100Hz / 1KHz / 10KHz – 10 Watt ref:

57 / 59 / 54 (dB)

Crossover:

HP (CH1/2) / HP or LP (CH3/4) [80Hz – 12dB/oct]

Thermal cutoff Threshold:

82 °C (±5°C)

Recovery Temperature Threshold:

72 °C (±5°C)

Load drive limitations (*):

2 Ohm / 4 Ohm (SE / BTL)

Suggested fuse:

30 A (onboard)

Other features:

16 Volt ready
 Start & Stop compliant
 Autosense: auto switch-on (BTL sources only)

VERY IMPORTANT NOTE - READ CAREFULLY

Minimum load: 2 Ohm SE / 4 Ohm BTL

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