

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** VRecommended operation supply voltage range:**10** V ÷ **14.4** VPower-on/Power-off Voltage Threshold:**9.5** V / **6.5** VMute delay time:**3** secsSecondary voltages (Rail / Service):±**34.4** V / ±**14.8** VMax output offset voltage (each channel):±**150** mVStandby current:< **0.1** mA (typical)Idle current @ 14V4 (no signal):**0.92** AThermal protection consumption:< **1** mABattery ground vs secondary ground decoupling:**1** KOhmBody ground vs battery ground decoupling:**0** OhmBandwidth (-3dB ÷ 1 Watt):< **10** Hz ÷ **40** KHzInput 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** dBS/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** mVEq. 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

- All Right Reserved/Patent Pending - Features may change without notice -