

MOSCONI

GLADEN **ZERO 3** is now available



CEA-2006-A SPECIFICATIONS

POWER RATING: 270 Watt per channel @ 4 Ohm < 1% THD+N
SN RATIO: >77 dBA (reference: 1 Watt into 4 Ohm)

MOS SPECIFICATIONS (Tcase = 25 °C / 4 Ohm stereo / 0.2V input level @ 14.4 Volt if not otherwise specified)

TARGET POWERS:	270 Watt per channel @ 4 Ohm
	520 Watt per channel @ 2 Ohm
	1040 Watt BTL mode @ 4 Ohm
	1850 Watt BTL mode @ 2 Ohm (*)
EFFECTIVE POWERS:	274 Watt (274 Watt @12V6) x 2 58.9 A ($\eta = 65.1\%$) @ 4 Ohm / ST mode / 1% THD / 1KHz
	522 Watt (522 Watt @12V6) x 2 124.8 A ($\eta = 58.1\%$) @ 2 Ohm / ST mode / 1% THD / 1KHz
	1044 Watt (1044 Watt @12V6) x 1 124.8 A ($\eta = 58.1\%$) @ 4 Ohm / BTL mode / 1% THD / 1KHz
THD @ 4 Ohm / ST mode:	< 0.035 % (1KHz / 90% Power rating ref)
THD @ 2 Ohm / ST mode:	< 0.040 % (1KHz / 90% Power rating ref)
DIM @ 4 Ohm / ST mode:	< ----- % (Power rating ref)
DIM @ 2 Ohm / ST mode:	< ----- % (Power rating ref)
DC-DC converter typology:	Regulated
Conversion frequency:	50 KHz ($\pm 6\%$)
Absolute maximum operation supply voltage range:	10 V ÷ 16 V
Recommended operation supply voltage range:	11 V ÷ 14.4 V
Power-on/Power-off Voltage Threshold:	9 V / 7.5 V
Mute delay time:	3 secs
Secondary voltages (Amp. / Drive / Pre.):	±47.3 V / ±11 V / ±15.7 V
Max output offset voltage (each channel):	±15 mV
Standby current:	1.8 mA (typical)
Quiescent consumption @ 12V6:	1.05 A (no idle current regulation)
Idle current regulation (no signal):	0.15 A (each channel)
Quiescent consumption @ 12V6:	1.35 A (with idle current setted)
Thermal protection consumption:	1.5 A
Battery ground vs secondary ground decoupling:	1 KOhm
Body ground vs battery ground decoupling:	65 Ohm
Bandwidth (-3dB ÷ 1 Watt):	< 5 Hz ÷ 85 KHz
Input sensitivity (Power rating ref):	0.43 V ÷ 9.5 V (1.2V ÷ 27V in High Level mode) [T.B.D.]
Input impedance @ 1 KHz (STEREO input):	11 Kohm (47 Ohm in High Level mode)
Input capacitance @ 1 KHz (STEREO input):	220 pF
Input ground decoupling:	47R (50 KOhm in High Level mode)
S/N ratio (AP filter 10 Hz - 500 KHz) – Power rating ref:	66 dB
S/N ratio (AP filter 10 Hz - 22 KHz) – Power rating ref:	101 dB (“A” weighted)
Eq. Input noise (AP filter 10 Hz - 500 KHz):	214,5 uV
Eq. Input noise (AP filter 10 Hz - 22 KHz):	3.8 uV (“A” weighted)
Channel separation@ 100Hz / 1KHz / 10KHz – 10 Watt ref:	72 dB / 72 dB / 65 dB
Xover functions:	HIGH Pass & LOW Pass (BAND Pass allowed) (20 ÷ 175Hz) & (50 ÷ 300Hz)
Filter slope - Filter "Q":	12 dB/oct - 0.7 (Stereo & Mono)
Thermal cutoff Threshold:	88 °C ($\pm 5^{\circ}\text{C}$)
ProSPEED® Fan Controller Threshold:	55 °C ($\pm 5^{\circ}\text{C}$)
Damping factor @ 100 Hz - 10 Watt ref (Right / Left):	3158 / 3151
Damping factor @ 1 KHz - 10 Watt ref (Right / Left):	3167 / 3160
Damping factor @ 10 KHz - 10 Watt ref (Right / Left):	701 / 630
Output impedance @ 1 KHz - 10 Watt ref (Right / Left):	1.3 mOhm / 1.3 mOhm
Load drive limitations (*):	1 Ohm / 2 Ohm (Stereo / Bridged)
Suggested fuse:	150 A (Internal)

(*) VERY IMPORTANT NOTE - READ CAREFULLY

4 Ohm ST or 8 Ohm BTL – CONTINUOUS SINEWAVE SIGNAL – pure resistive load or speaker load

2 Ohm ST or 4 Ohm BTL – MUSICAL SIGNAL – pure resistive load or speaker load

1 Ohm ST or 2 Ohm BTL – MUSICAL SIGNAL – speaker load only