

Genelec S30B

System Specifications

Lower cut-off frequency, -3 dB:	< 42 Hz
Upper cut-off frequency, -3 dB:	> 25 kHz
Free field frequency response tolerance of system	± 3 dB
Maximum short term sine wave acoustic output on axis in half space, integrated from 100 Hz to 3 kHz	@ 1 m > 111 dB SPL @ 0.5 m > 117 dB SPL
Maximum continuous RMS acoustic input in same conditions with IEC-weighted noise	@ 1 m > 104 dB SPL @ 0.5 m > 110 dB SPL
Maximum peak acoustic output per pair on top of console, speakers @ 1 m from the engineer, with music material	> 125 dB
A -20 dBu signal input will produce 87 dB SPL in free field @ 1 m on axis with all controls set at the 'CAL' position. The 'CAL' position is the 0 dB position of all tone controls and the maximum sensitivity position of the input level control. See specification in the Crossover Section.	
Input level for maximum short term output	+4 dBu
Input sensitivity adjusting range continuously variable	0...-20 dB (0 dB 'CAL')
Self generated noise level in free field @ 1 m on axis	< 10 dB (A weighted)
Harmonic distortion at 90 dB SPL at 1m on axis	
f < 200 Hz	< 3 %
f > 200 Hz	< 1 %
Drivers	8" cone (210mm)
Bass	3 1/2" cone (80 mm)
Mid	3/8" x 2 1/2" ribbon
Treble	(9x65 mm) with DCW
Weight	44 lb. (20 kg)
Dimensions	
Width	12 5/8" (320 mm)
Height	19 1/2" (495 mm)
Depth	11" (280 mm)
Amplifier	
Bass amplifier output power at 8 ohm load	
continuous	90 W
momentary	110 W
Mid amplifier output power at 8 ohm load	
continuous	25 W
momentary	110 W
Treble amplifier output power at 8 ohm load	
continuous	8 W
momentary	90 W
Mid and treble channel continuous output power is limited by the electronic overload protection	
Slew rate	> 20 V / μ s
Amplifier system distortion at nominal output	< 0,1 %
THD	< 0,1 %

SMPTE-IM	< 0,1 %
CCIF-IM	< 0,1 %
DIM100	

The amplifier system has passed the following tests:

Dry heat, stock (72 hours at +55°C, +131°F)	IEC 68-2, Bb
Dry heat, operation (20 hours at +40°C, 104°F)	IEC 68-2-2, Bb
Shock (1000 shocks at 25 G in each direction)	IEC 68-2-29, Eb
Vibration (from 10 to 150 Hz at 1 G, 2 hours at each direction)	IEC 68-2-6, Fc
Damp heat, cyclic (RH 93%, 12 hours at +40°C, +104°F, 12 hours at +25°C, +77°F)	IEC 68-2-30, Db
Cold operation (20 hours at -10°C, 14°F)	IEC-68-2-1, Ab
Cold, stock (72 hours at -40°C, -40°F)	IEC 68-2-1, Ab
Temperature changes (4 cycles from -40°C to +55°C and back from -40°C to +131°F)	IEC 68-2-14, Nb
Signal to Noise ratio, from shorted system input to channel output, referred to full output	
bass	98 dB
midrange	101 dB
treble	97 dB
Mains voltage	110/220/240 VAC
Voltage operation range	± 10 %
Power consumption,	
idle	30 VA
full output	220 VA
Crossover	
Input connector: XLR female	pin 2+ pin 3-
Input impedance	10 k balanced
Subsonic filter	down 12 dB @20 Hz re 100 Hz level
Ultrasonic filter	down 12 dB @50 kHz re 10 kHz level
Crossover frequency	
bass / midrange	420 Hz
midrange / treble	4 kHz
Crossover acoustical slopes	> 18 dB / octave
Tone control operation range in 1 dB steps	
bass	from 0 dB to -6 dB
midrange	from 0 dB to -6 dB
treble	from 0 dB to -6 dB

The 0 dB position is the 'CAL' position (switch position number 7)

Bass roll-off filter in 2 dB steps

from -4 dB to +2 dB @ 43 Hz

The 0 dB position is the 'CAL' position (switch position number 3)

All data subject to change without prior notice