

# SUBWOOFER SWS1100

The NEW and Improved SWS1100 series subwoofer is available in 15 and 18". Selenium loudspeakers specially developed this driver to meet the requirements of high power sound reproduction systems in low frequency ranges with large linear displacement of the cone. These products include 4" voice coils on fiberglass former, polycotton double spiders, non-pressed paper cones, rubber-impregnated-cloth suspensions and injected aluminum frame.

The SWS1100 woofer incorporates the famous Selenium MCS (Multi Cooling System), which increases heat dissipation and reduces operating temperature increasing the output power with reduced power compression.



### SPECIFICATIONS

		15SWS1100	18SWS1100
Nominal diameter	mm(in)	380(15)	460(18)
Nominal impedance	Ω	8	8
Minimum impedance	Ω	7.1(@129Hz)	6.8(@102Hz)
Power handling			
Continuous Music <sup>1</sup>	W	2,200	2,200
AES <sup>2</sup>	W	1,100	1,100
Sensitivity (2.83V@1m) averaged from 70 to 300Hz	DB SPL	95	97
Power compression @ 0 dB (nom. Power)	dB	3.5	4.1
Power compression @ -3 dB (nom. power)/2	dB	1.8	2.4
Power compression @ -10 dB (nom. Power)/10	dB	1.5	1.7
Frequency response @ -10 dB	Hz	35 - 3,000	30 - 3,000

<sup>1</sup>Power handling specifications refer to normal speech and/or continuous music material, reproduced by an amplifier producing no more than 5% distortion. Power is calculated as true RMS voltage squared divided by the nominal impedance of the loudspeaker

<sup>3</sup> AES Standard (60 - 600 Hz).

### THIELE-SMALL PARAMETERS

		15SWS1100	18SWS1100
Fs	Hz	37	34
Vas	l(ft)	140(4.94)	253(8.93)
Qts		0.41	0.50
Qes		0.42	0.52
Qms		13.2	11.68
ho (half space)	%	1.7	1.94
Sd	m(in)	.0814(126.17)	.1194(184.45)
Vd (Sd x Xmax)	cm(in)	757(46.2)	1,134(69.22)
Xmax (max. excursion (peak) with 10% distortion)	mm(in)	9.3(0.37)	9.3(0.37)
Xlim (max. excursion (peak) before physical damage)	mm(in)	25(0.98)	25(0.98)

### ADDITIONAL INFORMATION

		15WS1100	18WS800
Magnet material		Barium ferrite	Barium ferrite
Magnet weight	g(oz)	3,440 (120)	3,440 (120)
Magnet diameter x depth	mm(in)	220 x 24 (8.66 x 0.95)	220 x 24 (8.66 x 0.95)
Magnetic assembly weight	g(lb)	11,200 (24.69)	11,200 (24.69)
Frame material		Aluminum	Aluminum
Frame finish		Black-Silver Epoxy	Black-Silver Epoxy
Voice coil material		Aluminum	Aluminum
Voice coil former material		Fiberglass	Fiberglass
Cone material		Non-pressed long pulp	Non-pressed long pulp
Volume displaced by woofer	l(ft)	7.2 (0.254)	8.6 (0.304)
Net weight	g(lb)	13,920 (30.69)	14,180 (23.15)
Gross weight	g(lb)	14,700 (32.41)	15,400 (33.95)
Carton dimensions	cm(in)	43x43x23(16.9x16.9x9)	48x48x24(18.9x18.9x9.5)

Specifications subject to change without prior notice