

F SERIES WIDE-DISPERSION SPEAKER SYSTEM



Compact and versatile sound reinforcement solutions

Compact high performance and un



The latest addition to TOA's acclaimed speaker line, the new F Series of compact, high efficiency two-way speakers achieve higher performance levels for wide range frequency response and power handling. Designed to be extremely versatile in order to meet different installation and application

requirements, the new F Series are ideal solutions that solve increasing needs for adaptable sound reinforcement.





Significantly improved 110° \times 100° high-frequency dispersion

F-1000

Conventional Horn

angle, for better sound coverage and a more even tonal balance.

F-2000: 110° × 100° F-1300: 110° × 100° F-1000: 90° × 90°

dispersion

Easily mountable adapter included (F-2000 only), for applications requiring more controlled dispersion.

•HF Horn Adapter for F-2000





matched installation versatility.

Various mount brackets

Accessory brackets enable a wide variety of installations, for example on walls, ceilings and speaker stands. Moreover, additional available brackets make even more demanding installations possible.

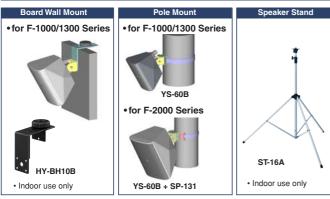
Stylish and highly rigid speaker casing design

The F Series speaker casing comes with a design that is highly stylish, so it blends well into a room's decor and can be attractively installed. The graceful, lightly convex bulge on the side of the casing is also part of a rigidity-enhancing casing construction that works for clear sound reproduction.











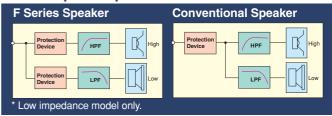


For any environment

The F Series also features a waterproof design. The speakers may also be re-painted as desired.



Built-in speaker protection



Impedance matching

for optimal amplifier/speaker performance.



Easy connecting

Push-in terminals allow quick connections.





Model No.	F-1000B	F-1000W	F-1000BT	F-1000WT	F-1000BTWP	F-1000WTWP	
Enclosure Type		·	Ва	ss-reflex type	·	·	
Power Handling Capacity		(continuous pink noise) (continuous program)			_		
Rated Input	- 15W						
Rated Impedance	8Ω		100V line: 670Ω (15W), 70V line: 330Ω (15W), 67	8Ω 100V line: 670Ω (15W), $2 \log (5W)$, $3.3 \log (3W)$, $10 \log (1W)$ 70V line: 330Ω (15W), 670Ω (7.5W), $2 \log (2.5W)$, $3.3 \log (1.5W)$, $10 \log (0.5W)$		100V line: 670Ω (15W), 2 kΩ (5W), 3.3 kΩ (3W), 10 kΩ (1W) 70V line: 330Ω (15W), 670Ω (7.5W), 2 kΩ (2.5W), 3.3 kΩ (1.5W) 10 kΩ (0.5W)	
Sensitivity			87 dB (1W, 1m) at in	stallation in 1/2 free sound field			
Dispersion (1 to 4k Hz avg.)			120° Horizontal	165° Vertical			
Frequency Response			85 – 20,000 Hz, -10 dB	at installation in 1/2 free sound field			
Crossover Frequency	5 kHz						
Directivity Angle	Horizontal: 90º, Vertical: 90º						
Speaker Component	Low frequency: 10 cm (4") cone-type High frequency: Balanced dome tweeter						
Input Terminal	nigi ilequency. balanceu donie weetei Push-in terminal						
Water Protection			_			Equivalent to IPX4	
Operating Temperature					-10°C to -	50°C (14°F to 122°F)	
Finish	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black	Enclosure: HIPS, white	
Dimensions			130 (W) × 202 (H) × 13	81 (D) mm (5.12" × 7.95" × 5.16")			
Weight Accessories	1.8 kg (3.97 lb) (including the	supplied brackets) Speaker bracket × 1, Joint bracket × 1	1, Wall bracket × 1, Bracket fixing s	2 kg (4.41lb) (including the supplied brackets) g screw × 1 set Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1, Bracket fixing screw × 1 set, Terminal cover × 1, Terminal cover mounting screw × 4			
Model No.	F-1300B	F-1300W	F-1300BT	F-1300WT	F-1300BTWP	F-1300WTWP	
Enclosure Type			Ва	ss-reflex type			
Power Handling Capacity		(continuous pink noise)			_		
Detect learns	150 W	(continuous program)			00.14		
Rated Input		-		0.0	30 W		
Rated Impedance		Ω 8		8 Ω 1 k Ω (10W), 3.3 k Ω (3W), 10 k Ω (1W) 30 Ω (15W), 1 k Ω (5W), 3.3 k Ω (1.5W), 10 k Ω (0.5W)	70V line: 170Ω (30W), 330	kΩ (10W), 3.3 kΩ (3W), 10 kΩ (1W) Ω (15W), 1 kΩ (5W), 3.3 kΩ (1.5W) J kΩ (0.5W)	
Dispersion (1 to 4k Hz avg.)			160° Horizontal	180° Vertical			
Sensitivity			90 dB (1W, 1m) at ir	stallation in 1/2 free sound field			
Frequency Response			80 – 20,000 Hz, -10 dB	at installation in 1/2 free sound field			
Crossover Frequency				2 kHz			
Directivity Angle Speaker Component	Horizontal: 110°, Vertical: 100° Low frequency: 13 cm (5°) cone-type High frequency: 25 mm (1°) dome tweeter						
Input Terminal				sh-in terminal			
Water Protection			-			ivalent to IPX4	
Operating Temperature	Englagura IIIDC block	Englagura IIIDC white	— Englacura IIIDC block	Englacura IIIDC white	=10°C to - Enclosure: HIPS, black	50°C (14°F to 122°F)	
Finish Dimensions	Enclosure: HIPS, black	Enclosure: HIPS, white	Enclosure: HIPS, black $(W) \times 250 (H) \times 161 (D) mm (6.38)$	Enclosure: HIPS, white	Eliciosule, nipo, diack	Enclosure: HIPS, white	
Weight	3.1 kg (6.83 lb) (including the		(W) × 230 (H) × 101 (D) HIIII (0.30	3.6 kg (7.94 lb) (including the supplie	ed hrackets)		
Accessories	5.1 kg (0.05 lb) (illolading the	Speaker bracket × 1, Joint bracket × 1	1. Wall bracket × 1. Bracket fixing s			int bracket × 1, Wall bracket × 1,	
			, ran basic x , prasis x in mg o		Bracket fixing screv	v×1 set, Terminal cover×1, er mounting screw×4	
Model No.	F-2000B	F-2000W	F-2000BT	F-2000WT	F-2000BTWP	F-2000WTWP	
Enclosure Type	Bass-reflex type 60 W (continuous pink noise) 180 W (continuous program)						
Dames Handling On 19							
Power Handling Capacity	I KI I III						
	18U W	r (continuous program)			60 W		
Rated Input	18U W			80	60 W		
Rated Input Rated Impedance	180 W	— 8 Ω	70V line: 83Ω (60W), 17	8 Ω 30 Ω (30W), 670 Ω (15W), 3.3 kΩ (3W) ΩΩ (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 kΩ (1.5W)	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 170s		
Rated Input Rated Impedance	180 W		70V line: 83Ω (60W), 17	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W) 0 Ω (30W), 330 Ω (15W), 670 Ω (7.5W),	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 170s) Ω (30W), 670 Ω (15W), 3.3 kΩ (3W 2 (30W), 330 Ω (15W), 670 Ω (7.5W) 3 kΩ (1.5W)	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity	180 W		70V line: 83Ω (60W), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1703 3	Ω (30W), 330 Ω (15W), 670 Ω (7.5W)	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response	180 W		70V line: 83Ω (60W), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1703 3	Ω (30W), 330 Ω (15W), 670 Ω (7.5W)	
Power Handling Capacity Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response Crossover Frequency Directivity Angle	180 W		70V line: 83Ω (60W), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation 65 - 20,000 Hz, -10 dB. Horizonta	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω 2 (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter at installation in 1/2 free sound field 2.5 kHz 1:110°, Vertical: 100°	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1703 3	Ω (30W), 330 Ω (15W), 670 Ω (7.5W)	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response Crossover Frequency Directivity Angle	180 W		70V line: 83Ω (60W), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation 65 - 20,000 Hz, -10 dB Horizontal Horizontal: 80°, Vc Low frequen	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter at installation in 1/2 free sound field 2.5 kHz 110°, Vertical: 100° rtical: 80° (with horn adapter) ty: 20 cm (8°) cone-type	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1703 3	Ω (30W), 330 Ω (15W), 670 Ω (7.5W)	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response Crossover Frequency Directivity Angle Speaker Component	180 W		70V line: 83Ω (6ŪW), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation 65 - 20,000 Hz, -10 dB Horizontal Horizontal 80°, Vi Low frequen High frequency	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω 2 (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter at installation in 1/2 free sound field 2.5 kHz 1:110°, Vertical: 100° tricial: 80° (with horn adapter)	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1703 3	Ω (30W), 330 Ω (15W), 670 Ω (7.5W)	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response Crossover Frequency Directivity Angle	180 W		70V line: 83Ω (6ŪW), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation 65 - 20,000 Hz, -10 dB Horizontal Horizontal 80°, Vi Low frequen High frequency	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter at installation in 1/2 free sound field 2.5 kHz 110°, Vertical: 100° trick at 100° t) 100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1704 3	Ω (30W), 330 Ω (15W), 670 Ω (7.5W	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response Crossover Frequency Directivity Angle Speaker Component Input Terminal	180 W		70V line: 83Ω (6ŪW), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation 65 - 20,000 Hz, -10 dB Horizontal Horizontal 80°, Vi Low frequen High frequency	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter at installation in 1/2 free sound field 2.5 kHz 110°, Vertical: 100° trick at 100° t) 100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1704 3	2 (30W), 330 Ω (15W), 670 Ω (7.5W 3 kΩ (1.5W)	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response Crossover Frequency Directivity Angle Speaker Component Input Terminal Water Protection	Enclosure: HIPS, black		70V line: 83Ω (6ŪW), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation 65 - 20,000 Hz, -10 dB Horizontal Horizontal 80°, Vi Low frequen High frequency	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter at installation in 1/2 free sound field 2.5 kHz 110°, Vertical: 100° trick at 100° t) 100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 1704 3	$_{\rm 2}$ (30W), 330 $_{\rm \Omega}$ (15W), 670 $_{\rm \Omega}$ (7.5W) 3 k $_{\rm \Omega}$ (1.5W)	
Rated Input Rated Impedance Dispersion (1 to 4k Hz avg.) Sensitivity Frequency Response Crossover Frequency Directivity Angle Speaker Component Input Terminal Water Protection Operating Temperature		8 Ω Enclosure: HIPS, white	70V line: 83Ω (60W), 17 146° Horizontal 92 dB (1W, 1m) at in 93 dB (1W, 1m) at installation 65 - 20,000 Hz, -10 dB. Horizontal: 80°, Vi Low frequent High frequency Pu Enclosure: HIPS, black	30 Ω (30W), 670 Ω (15W), 3.3 k Ω (3W), Ω (30W), 330 Ω (15W), 670 Ω (7.5W), 3.3 k Ω (1.5W) 130° Vertical stallation in 1/2 free sound field in 1/2 free sound field (with horn adapter at installation in 1/2 free sound field 2.5 kHz 110°, Vertical: 100° strical: 80° (with horn adapter) yz 20 cm (8°) cone-type 2.25 mm (1°) dome tweeter sh-in terminal	100V line: 170Ω (60W), 33 70V line: 83Ω (60W), 170 3 Equ -10°C to - Enclosure: HIPS, black	2 (30W), 330Ω (15W), 670Ω (7.5W) $3 k\Omega$ (1.5W)	

Speaker bracket × 1, Joint bracket × 1, Wall bracket × 1,

Bracket fixing screw × 1 set,

Horn adapter x 1, Horn adapter mounting screw x 4



TOA Canada Corporation

Speaker bracket ×1, Joint bracket ×1, Wall bracket ×1, Bracket fixing screw ×1 set, Horn adapter x1, Horn adapter mounting screw x 4, Terminal cover x1,Terminal cover mounting screw × 4