

The ISA Installed System Amplifiers are designed to meet the needs of sound system designers and contractors worldwide. Three models feature isolated 25-, 70-, and 100-volt outputs for distributed sound systems, while four low-impedance models are rated for 2-ohm operation. The ISA 1350 drives 70V lines directly with 1500 watts per channel. Versatile loading options and a comprehensive set of features make the ISA Series a rugged, costeffective power solution for any permanently installed sound system.



ISA Features

- · Four models for low-impedance applications
- ISA 1350 drives 70V lines directly with 1500 watts / channel
- Three "Ti" versions include low-impedance and isolated 25-,70-, and 100-volt outputs for distributed audio systems
- Rear panel gain controls for tamper resistant operation with 2-dB detents for quick and repeatable settings
- XLR and detachable Euro style input connectors
- DataPort V2 for use with DPV2-compatible signal processing accessories (XC-3, SF-3, LF-3) and DSP-3/DSP-4 (with external power supply)
- Independent defeatable clip limiters for reduced distortion
- Selectable high-pass filters protect speakers and prevent speaker transformer saturation with minimal effect on program material (30 Hz or 70 Hz on non-"Ti" models, 50 Hz or 75 Hz on "Ti" models)
- Class H complementary bipolar output circuitry reduces AC power draw and waste heat by 40% on ISA 750 and 800Ti, and by 50% on ISA 1350
- Front panel indicators include power, signal, and clip (and protect on ISA 1350)
- Covered barrier strip output connectors for safety agency compliance
- Automatic variable-speed fan for quiet normal operation with maximum cooling on demand
- · Rear-to-front air flow keeps equipment racks cool
- Stereo, Bridge, or Parallel operating modes

- Comprehensive protection circuitry including DC, infrasonic, thermal overload, and short circuit protection
- · 3-year warranty plus optional 3-year extended service contract

"Ti" Models

- Isolated 25-, 70-, 100-volt, and low-impedance outputs available simultaneously
- Simple barrier strip connection determines output mode
- "Ti" models have fully isolated 25-, 70-, and 100-volt outputs

Model	Watts per channel							
ISA	70V*	8 Ω**	4 Ω**	2 Ω†				
280	•	185	280	430				
450	•	260	425	700				
750	•	450	650	1200				
1350	1500⁺⁺	800	1300	2000				
300Ti	300	185	280	430				
500Ti	500	260	425	700				
800Ti	800	450	650	1200				



ISA SPECIFICATIO	N S	280	450	750	1350	300Ti	500Ti	800Ti			
Stereo Mode (both channels driven)		Continuous Average Output Power Per Channel									
8 ohms 20 Hz-20 kHz 0.1%	THD	185W	260W	450W	800W	185W	260W	450W			
4 ohms 20 Hz-20 kHz 0.1%	THD	280W	425W	650W	1300W	280W	425W	650W			
2 ohms 1 kHz 19	6 THD	430W	700W	1200W	2000W	430W	700W	1200W			
Direct Output, Stereo Mode											
70V 20 Hz-20 kHz +0/-0.3dB 0	70V 20 Hz-20 kHz +0/-0.3dB 0.5% THD		-	-	1500W	-	-	-			
XF Output Power, Stereo Mod	XF Output Power, Stereo Mode										
70V or 100V 50 Hz-16 kHz 0.5	% THD	-	-	-	-	300W	500W	800W			
25V 50 Hz-16 kHz 0.5	% THD	-	-	-	-	200W	300W	500W			
Bridge Mono Mode	Bridge Mono Mode		Continuous Average Output Power								
8 ohms 1 kHz 0.1	% THD	600W	900W	1500W	2800W	600W	900W	1500W			
4 ohms 1 kHz 1	% THD	830W	1400W	2400W	4000W	830W	1400W	2400W			
XF Output Power, Bridge Mo	XF Output Power, Bridge Mono Mode										
140V or 200V 50 Hz-16 kHz 0.5	% THD	-	-	-	-	600W	1000W	1600W			
Signal to Noise (20Hz-20kHz)	Signal to Noise (20Hz-20kHz)		100 dB	100 dB	100 dB	100 dB	100 dB	100 dB			
Distortion (SMPTE-IM)	Distortion (SMPTE-IM)			Less than 0.02%	Less than 0.01%	Less than 0.01%	Less than 0.01%	Less than 0.02%			
Input Sensitivity @ 8 ohms	, ,			1.07v (+2.8 dBu)	1.24v (+4.1 dBu)	1.15v (+3.4 dBu)	1.07v (+2.8 dBu)	1.07v (+2.8 dBu)			
Gain at 8 ohms		33.4x (30.5 dB)	44.7x (33 dB)	56.2x (35 dB)	64.0x (36.1 dB)	33.4x (30.5 dB)	44.7x (33 dB)	56.2x (35 dB)			
Output Circuitry		Class AB	Class AB	Class H, 2 Tier	Class H, 3 Tier	Class AB	Class AB	Class H, 2 Tier			
Weight Ne	et	36 lb (16.3 kg)	42 lb (19 kg)	47 lb (21.3 kg)	68 lb (30.8 kg)	44 lb (20.0 kg)	49 lb (22.3kg)	57 lb (26 kg)			
_ _	ipping	42 lb (19.1 kg)	48 lb (22 kg)	53 lb (24.0 kg)	77 lb (34.4 kg)	50 lb (22.7 kg)	55 lb (25 kg)	63 lb (28.6 kg)			
All models	1			oo iii (= iio iig)	77 to (0 to tig)	00 ii (==ii iig)	00 iii (20 iig)	00 III (=010 II.g)			
Distortion (typical)			All models								
	20 Hz-20 kHz: 10 dB below rated power		Less than 0.03% THD, 4 Ω & 8 Ω								
1.0 kHz and below: full rated power		Less than 0.03% THD, 4 Ω & 8 Ω									
Frequency Response		ISA 280, 450, 750 and 1350: 20 Hz–20 kHz, +0/-1 dB; -3 dB points: 5 Hz and 50 kHz									
10 dB below rated output power	ISA 200, 430, 730 and 1330: 20 Hz-20 KHz, +0/-1 db; -3 db points: 5 Hz and 30 KHz										
To do below faled output power	Direct outputs: -3 dB @ 50 Hz, -0.5 dB @ 20 kHz; XF outputs: 50 Hz-16 kHz, +0/-3 dB										
Damping Factor (direct outpu	Greater than 200 @ 8Ω , ISA 1350 greater than 250										
Output Regulation (isolated outputs)		Less than 1.5 dB									
Input Impedance	10 k Ω unbalanced, 20 k Ω balanced										
Input Clipping	10 Vrms (+22 dBu), ISA 1350 4.53 Vrms (+15.3 dBu)										
Cooling	Continuously variable speed fan, back-to-front air flow										
Connectors	Input: Active balanced; 3-pin Euro-style detachable terminal block and XLR (pin 2+)										
	Output: Covered barrier strips										
	DataPort V2: HD-15 connector										
Controls		Front: AC switch									
Rear: Ch. 1 and Ch. 2 gain knobs, 10-position DIP switch											
Indicators	PWR-ON:	Green LED		SIGNAL: Gro	een LED (1 per c	hannel)					
	PROTECT: Red LED (ISA 1350) CLIP: Red LED (1 per channel)										
Amplifier Protection		Full short circuit, open circuit, thermal, ultrasonic, and RF protection;									
		Stable into reactive or mismatched loads									
Load Protection	Load Protection		On/off muting; Triac crowbar: ISA 750, 1350 and 800Ti; AC coupling: ISA 280, 300Ti, 450 and 500Ti								
Dimensions	19" (48.3 cm) rack mounting, 5.25"(13.3cm) tall (3 rack spaces),										
	15.9" (40 cm) deep (from front mounting rails)										
Power Requirements		120, 230, VAC, 50-60 Hz									

Specifications subject to change without notice.

