

QSC ISA 300Ti - Razglasno pojačalo

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Designed as a cost-effective solution specifically for sound contractors, the ISA Series features seven models including four low impedance models (ISA 280, ISA 450, ISA 750, ISA 1350) rated for 2-ohm operation, and three "Ti" versions with isolated 25, 70 and 100 volt outputs for distributed audio systems (ISA 300Ti, ISA 500Ti, ISA 800Ti). Versatile loading options and a comprehensive feature set make the ISA Series a rugged, cost-effective power solution for any permanently installed sound system.

Unique among distributed sound power amplifiers, the "Ti" versions will drive 8 or 4 ohm loads and a distributed system on the same channel simultaneously. This enables a contractor to reduce the number of required amplifier channels by allowing a limited number of distributed speakers to be attached to the same amp as is powering the main sound system.

Housed in a rugged 3-U chassis, all seven models feature rear panel gain controls for tamper resistant operation with 2 dB detents for quick and repeatable settings. Inputs include both XLR and detachable Euro-style connectors. Outputs feature covered barrier strip connectors for safety agency compliance, and for added versatility, a DataPort V2 (Version 2) terminated with an HD-15 connector is provided for use with DPV2-compatible signal processing accessories such as the XC-3 Crossover, SF-3 Subwoofer Filter, LF-3 Low Frequency Filter and the DSP-3 with external power supply.

Selectable high-pass filters are included to protect speakers and prevent speaker transformer saturation with minimal effect on program material. The ISA Series provide additional protection circuitry including DC, infrasonic, thermal overload, RF and short circuit protection.

On the ISA 750 and ISA 800Ti, class H complementary bipolar output circuitry increases system efficiency by reducing AC power draw and waste heat by 40%. Cooling is accomplished via an automatic variable speed fan, which pulls air from back to front.

FEATURES

Four models for low-impedance applications

ISA 1350 drives 70V lines directly with 1500 watts / channel

Three 25, 70

Rear panel gain controls for tamper resistant operation with 2 dB detents for quick and repeatable settings

XLR

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)

Independ

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 AC po 800Ti

Front panel indicators include power, signal, and clip (and protect on ISA 1350)

Cover

agency compliance

Automatic variable-speed fan for quiet normal operation with maximum cooling on demand

Rear-

Stereo, Bridge, or Parallel operating modes

Comp

3-year warranty plus optional 3-year extended service contract

infras

"Ti" Models

25, 70, 100 volt, and low-impedance outputs available simultaneously

Simple barrier strip connection determines output mode

"Ti" m

output

SPECIFICATIONS

8 ohms 20 Hz-20 kHz 0.1% THD

4 ohms 20 Hz-20 kHz 0.1% THD

2 ohms 1 kHz 1% THD

70V 20 Hz-20 kHz +0/-0.3 dB 0.5% THD

70V or 100V 50 Hz-16 kHz 0.5% THD

25V 50 Hz-16 kHz 0.5% THD

8 ohms 1 kHz 0.1% THD

4 ohms 1 kHz 1% THD

140V or 200V 50 Hz-16 kHz 0.5% THD

Signal to Noise (20 Hz-20 kHz)

Distortion (SMPTE-IM)

Input Sensitivity @ 8 ohms

Voltage Gain @ 8 ohms

Output Circuitry

THX Approved

Weight - Net

Weight - Shipping

Distortion (Typical)

20 Hz-20 kHz: 10 dB below rated power

1.0 kHz and below: full rated power

Frequency Response

10 dB below rated output power

ISA300Ti

STEREO MODE, Both Channels Driven

185W

280W

430W

DIRECT POWER, STEREO MODE

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XF OUTPUT POWER, STEREO MODE

300W

200W

BRIDGED MONO MODE

600W

830W

XF OUTPUT POWER, BRIDGED MONO MODE

600W

100 dB

Less than 0.01%

1.15v

(+3.4 dBu)

33.4x

(30.5 dB)

Class AB

-

44 lbs

(20.0 kg)

50 lbs

(22.7 kg)

ALL MODELS

Less than 0.03% THD, 4 ohms and 8 ohms

Less than 0.03% THD, 4 ohms and 8 ohms

ISA 300Ti, 500Ti and 800Ti:

Direct outputs: -3 dB @ 50 Hz, -0.5 dB @ 20 kHz; XF outputs: 50 Hz-16 kHz, +1/-3 dB

| | |
|--------------------------------------|---|
| Damping Factor (direct outputs) | Greater than 200 at 8 ohms, ISA 1350 greater than 250 |
| Output Regulation (isolated outputs) | Less than 1.5 dB |
| Input Impedance | 10 k ohms unbalanced, 20 k ohms balanced |
| Input Clipping | 10 Vrms (+22 dBu) |
| Cooling | Continuously variable speed fan, back-to-front air flow |
| Connectors, each channel | 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: Green LED (1 per channel); CLIP: Red LED (1 per channel) |
| Dimensions | 19" (48.3 cm) rack mounting, 5.25"(13.3cm) tall (3 rack spaces), 15.9" (40 cm) deep (from front mounting rails) |
| Amplifier Protection | Full short circuit, open circuit, thermal, ultrasonic, and RF protection; Stable into reactive or mismatched loads |
| Power Requirements | 120, 230, VAC, 50-60 Hz On/off muting; Triac crowbar: ISA 750, 1350 and 800Ti; AC coupling: ISA 280, 300Ti, 450 and 500T |
| Load Protection | |