ATOLL
ELECTRONIQUE

High-Fidelity, quality products designed and carefully made by hand in France
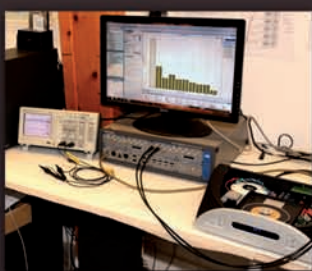
Atoll Electronique manufactures what are arguably some of the finest high performance audio electronics at reasonable price points. The company was officially founded in 1997 by brothers Stéphane and Emmanuel Dubreuil with a goal to produce affordable top-level, high fidelity products that are hand-made in France at surprisingly accessible price points. Atoll Electronique's dedication to producing high performance musical playback products is further supported by the company's commitment to the highest quality construction and quality control standards.

Atoll's R&D department invests great effort and time to perfect their current and newly developed products prior to production. The company uses simultaneous and systematic measurements in the selection of key quality components and assemblies. Discrete, symmetrical audio stages are used throughout the products and utilize low or no feedback designs with precise adjustments to yield exceptional musicality and precision. All key components are selected only after extensive research, comparisons and strict measurements. These painstaking efforts produce a sound that is dynamic, detailed and accurate satisfying even the most demanding connoisseur.

All our products are entirely engineered, assembled and thoroughly tested in our factory in Brécey, France. Furthering the company's adherence to quality, all products are tested throughout production with a final 4 step check, thorough listening and a measurement session of each and every unit! Our rigorous manufacturing and quality control standards ensure high quality, high performance and reliable products that are built to last.

Atoll Electronique's products satisfy even the most demanding audiophiles and music lovers worldwide. Distributed in over 30 countries the products have received numerous praise and accolades for their exceptional performance, build quality and beautiful European design.

Design, tests and control

Handmade construction and soldering

Chassis assembly

The CD30 and IN30 entry level products offer serious performance and construction.
Used together or as a part of a separate system their performance will astound you with their musical performance not expected anywhere near these price points; exceptional value products.
100% Designed, Handcrafted and tested in France.

- Pure audio CD drive (play CDs, CD - R, CD - RW MP3; CD text access)
- Wolfson converterWM8729 - Symmetrical Output stages with discrete components - Global ATOLL remote control
- USB Input (USB host):
  - Playback of media files in MP3 format (Hard disk, USB key, computer...)
  - Access to the tracks and chapters through the front panel and remote control

- FM Tuner (optional)
    - 60 customizable presets
    - Automatic channel scan

CD PLAYER / USB / TUNER

CD30

- CD Player
- USB Input (Host)
- Tuner module (optional)

INTEGRATED

IN30

Main Functions:
- Volume setup operated by digital command
- Balance setup
- Optional « wattmeter »
- Electronic protection

- Power: - 2X50 W_{RMS} / 8 ohms
             - 2X70 W_{RMS} / 4 ohms

- Symmetrical Output stages with discrete components
- MOS-FET Transistors
- 170 VA toroïdal transformer
- 1.5mm steel chassis

- 4 Inputs (CD, Tuner, DVD, AUX)
- 1 Tape Input (or By-pass)
- 1 media player Input jack (3,5mm)
- 1 Headphones Output (3,5mm)
- 1 Preamp. Output

Both IN30 & CD30 are available in black grey or lacquered finish.

The serial remote control for the CD30 allows to control the IN30 as well

CD Players

CD50SE-2

- 5 regulated supplies
- WM8729 Wolfson converter
- Dynamic and signal/noise ratio of 106dB
- Total of capacitors 14 000µF
- MKT condensators
- Pure A class output stages with bipolar transistors

CD80SE-2

- 7 regulated supplies
- WM8729 Wolfson converter
- Dynamic and signal/noise ratio of 106 dB
- Total of capacitors 17 000µF
- MKT condensators for audio links
- Pure A class output stages with bipolar transistors

CD100SE-2

- 7 regulated supplies
- PCM1796 Burr-Brown converter
- Dynamic and signal/noise ratio of 123 dB
- Symmetrical output stages with discrete components polarized on A class supplied by a specific toroidal 160VA transformer

Technical details on the reference series CD players:

- pure CD drive (optimized for a significant reduction of the jitter) mounted on an anti-resonant chassis
- Transformer specifically dedicated to audio stages
- SGold plated audio and digital outputs (coaxial)
- Playback of CD, CD - R and MP3
- CD text
- Global ATOLL remote control.

OPTIONAL CONVERTER BOARD:

All SE-2 CD players models can be equipped with an optional board including 3 digital inputs:

- *1 digital input Coaxial*
- *1 digital input Optical*
- *1 USB input*

CD DRIVE

DR100SE-2

- TEAC CD drive designed with specific anti-vibration material
- Separated power supplies for the mechanism and the digital software
- 15VA transformer
- 11 000µF capacitors specially dedicated to the mechanism

FM TUNER

TU80

The TU80 high precision audiophile FM Tuner stands out because of its excellent musical articulation and the finesse of its timbres.

- 60 customizable presets
- Automatic channel scan

INTEGRATED

IN50SE

2X50 W$_{RMS}$ / 8 ohms
2X70 W$_{RMS}$ / 4 ohms
Power supply: 170VA

IN80SE

2X80 W$_{RMS}$ / 8 ohms
2X120 W$_{RMS}$ / 4 ohms
Power supply: 340VA

IN100SE

2X100 W$_{RMS}$ / 8 ohms
2X140 W$_{RMS}$ / 4 ohms
Power supply: 670VA

DETAILS OF REFERENCE SERIES:

Motorized ALPS potentiometer

Fully symmetrical stages with discrete components, MOS-FET power transistors

Selection of sources with relays

MKP technology link capacitors

CONNECTINGS

5 Inputs
1 By-Pass
2 Pre-Out
1 Headphones

PREAMPLIFIERS:

OPTIONAL BOARDS
for IN & PR

AUX. Input can be transformed:

- Phono stage P50 or P100
- Digital Input
- Wireless Input

PR100SE

Power supply: 170 VA
Total of capacitor of 15000 µF
MKT condensators
By-pass Input

TRIGGER OPTION

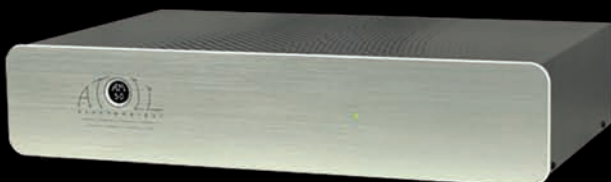An optional trigger link is possible between PR & AM.

PR200SE

Power supply: 340 VA
Total of capacitor of 30000 µF
MKT condensators
By-pass Input

POWER AMPLIFIERS

AM50SE - AM80SE - AM100SE

Stereo amplifiers AM50SE, AM80SE, AM100SE agree in most HIFI or audio-video applications. Very scalable, they can be used alone or in bi-amplification. Moreover, all models can be bridged onto mono block.

The PRESTIGE range offers exceptional musical qualities bringing a large sound realism and a completely mastered sense of power.

It is distinguishable by a 8 mm aluminum front panel with dual processing: brushing and microbillage.

CD PLAYER

CD200SE-2

- Current/voltage converters with ATOLL designed bipolar transistors stages
- MKP technology condensators (selected after listening test)
- Output differential stages with discrete components polarized in A class
- CD text
- ATOLL global remote control

- Pure audio drive (optimized for a significant reduction of the jitter) mounted on an anti-resonant chassis
- 160VA Toroidal transformer specifically dedicated to Output audio stages
- 15VA transformer dedicated to digital stages
  - 7 regulated supplies with one specifically dedicated for the converter
  - BURR-BROWN converter PCM1792:
    - 24bits/192 kHz, oversampling 8x
    - 129 dB dynamic, signal/noise ratio of 129 dB
    - Differential current outputs

OPTIONAL CONVERTER BOARD

The CD200SE-2 can be equipped with <u>an optional board</u> including 3 digital inputs (USB-B; coaxial, optical).
- *1 digital input Coaxial (24 bits/192kHz.)*
- *1 digital input Optical (24 bits/192kHz.)*
- *1 USB input (24 bits/96kHz.)*

CD DRIVE

DR200SE-2

- TEAC CD drive designed with specific anti-vibration material
- Separated power suppplies for the mechanism and the digital software
- 30VA transformer
- 24 800µF capacitors spefically dedicated to the mechanism
- Chassis treated against parasite vibrations
- 8 mm aluminium front panel

CD-SACD PLAYER

SACD200

- 160 VA toroidal Transformer for audio output stages
- BURR-BROWN PCM converter 24bits/192 kHz
- Full discrete differential A-class output stages
- Audio class MKP capacitors
- Exclusively linear power supply for all stages
- SACD stereo and multichannel

Audio Outputs:
- Analog "6 channel"
- Down-mix 2 channel
- Digital (coaxial & optical)

CONVERTER

DAC200

Audio:
- BURR BROWN Converter PCM1792 (24 bits/192 kHz) (129dB dynamic range; THD+n<0,0004%)
- Symmetrical outputs current
- Symmetrical power transformers for output stages
- Output stages with discrete components and no feedback
- High technology MKP condensators

End users:
- Serial remote with volume control and sources selection
- Front panel with volume control by encoder and direct sources keys
- Digital display of volume level & sources
- Accepted format on optical & coaxial inputs: 16-24bits (44,1-48-96-192kHz)
- Accepted format on USB inputs: 16-24bits (32-44,1-48-96kHz)

Connecting:

5 outputs:
- 1 coaxial
- 1 optical
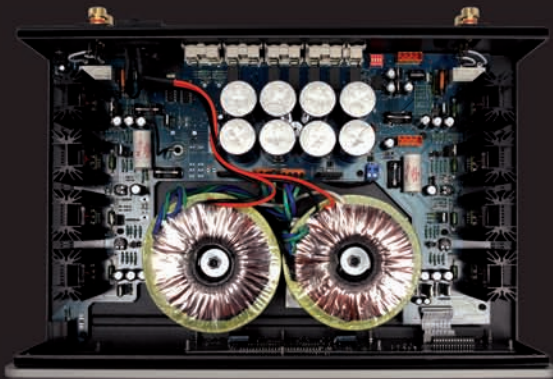- 1 RCA stereo
- 1 XLR
- 1 headphones

8 inputs:
- 1 AES/EBU
- 2 SPDIF coaxial
- 3 SPDIF optical
- 1 USB: 24bits/192kHz (asynchronous)
- 1 wireless (CD format) from a USB dongle (serial

Characteristics of IN200SE and couple PR300SE/AM200SE:

- Symmetrical Output stages with discrete components
- Double pair of MOS-FET transistors on each channel (IN200SE & AM200SE)
- Complete settings (from the front panel or with the remote control)of the balance and volume (IN200SE & PR300SE)
- Direct access to each inputs from the front panel or with the remote control
- 5 Inputs (with 1 AUX. for optional Phono or digital board)
- By-pass input
- Headphones jack

Internal view of the IN200SE

OPTIONAL BOARDS
for IN & PR

AUX. Input can be transformed:

- Phono stage P50 or P100
- Digital Input
- Wireless Input

TRIGGER LINK
A trigger link is available for
IN100SE
PR300SE & AM200SE

INTEGRATED

IN200SE

$2X120\ W_{RMS}$ / 8 ohms
$2X200\ W_{RMS}$ / 4 ohms
Double mono power supply: 2X330VA + 10VA

ATOLL global remote control
compatible with
all ATOLL products
(preamp., Integrated,
Tuner, CD players)

CONNECTINGS

- 5 Inputs
- 1 By-Pass
- 2 Pre-Out
- 1 Headphones
- 1 Trigger out

PREAMPLIFIER

PR300SE

Power supply: 340VA
Total of capacitors: 30 000 µF
Rising time: 1,3µs

POWER AMPLIFIER

AM200SE

$2X120\ W_{RMS}$ / 8 ohms
$2X200\ W_{RMS}$ / 4 ohms
Double mono power supply: 2X330VA + 10VA
Possibility to bridge in mono bloc

STREAMERS

ST100SE

- 4 mm aluminum front panel (black or silver)
- Power Supply: 30 + 3,2 VA
- Total of capacitors: 9858 µF
- Converter: BURR-BROWN (PCM 1796) 24bits-192kHz
- Signal/noise ratio: 123 dB
- Dynamic: 123 dB

ST200SE

- 8 mm Aluminum front panel (black or silver)
- Power Supply: 30 + 5 VA
- Total of capacitors: 12 178 µF
- Converter: BURR-BROWN (PCM 1792) 24bits-192kHz
- Signal/noise ratio: 129 dB
- Dynamic: 129 dB
- Audio filtering condensators with silver plated mica technology

STREAMERS FEATURING:

**PREAMP
CONVERTER
INTERNET RADIO
CONTROL WITH APP**

TECHNICAL SPECS
FOR ST100SE & ST200SE

HIGH DEFINITION STREAMER:

- Reads all audio files of the network (DLNA compatible)
- Readable formats (up to 24bits/192kHz): WAV, AIFF, FLAC ALAC, MP3…
- Displays of all information's (covers, files names, time…) from USB-A or network "gapless" system (uninterrupted playback of consecutive audio tracks)
- Possible update of the software from the device
- 3,5" QVGA TFT color display

INTERNET RADIO:

Direct access to internet radios (MP3 or HD) by the vTuner system: choice in 15000 stations, 120 countries, 56 genres, podcasts…

PREAMP INCLUDING ANALOG VOLUME CONTROL:

- Symmetrical outputs stages with discrete components polarized in A class
- Analog volume control (with commutated resistors) with possible By-Pass
- Transformer specifically dedicated to audio stages

1 Bluetooth® receiver (I2S interfaced to the PCM5102)

CONNECTING: (ST100SE & ST200SE)

2 USB « A » inputs (24 bits/96KHz) (1 front & 1 rear).
1 RJ45 input and 1 Wifi antenna
3 digital Inputs:
- 1 USB « B » asynchronous (24bits/192kHz)
- 1 Coaxial SPDIF (24 bits/192KHz)
- 1 Optical SPDIF (24 bits/192KHz)
1 Bluetooth® input
2 stereo analog Inputs
1 pair of analog RCA input
2 digital inputs (coaxial & optical)
1 headphones input (on front panel)

END USERS

Control with a free downloaded
iOS or Androïd app.

Serial remote control
(volume control,
Inputs selection,
web radio setup…)

ALL-IN-ONE

STREAMER
DAC
AMPLIFIER

SDA100

2X60 W_{RMS} / 8 ohms
2X70 W_{RMS} / 4 ohms
Power supply: 160VA + 30VA

CHARACTERISTICS FOR
SDA100 & SDA200

STREAMER:

All audio files linked to the network can be read: FLAC/WAV up to 24 bits/192kHz, ALAC, AIFF, MP3…
Displays of all information's (covers, files names, time…) "gapless" system (uninterrupted playback of consecutive audio tracks)

Radio Internet:

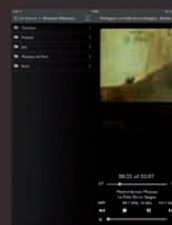- Internet radios (MP3 or HD) with vTuner system: choice in 15000 stations, 120 countries, 56 genres, podcasts…
- Radio's logos displays and all information's available (titles, artists…)

1 Bluetooth® receiver (I2S interfaced to the PCM5102)

Audio specs:

Converter: PCM5102 (SNR: 112dB)
Symmetrical audio stages with discrete components polarized in AB class
MOSFET power transistors
Analog volume control (with commutated resistors) with possible By-Pass
MKP audiophile capacitors armored in an aluminum enclosure

End users:
3,5" QVGA TFT color display
Remote control (volume control, Inputs selection, web radio setup…)
Control with a free downloadable Apple® or Androïd® app.

SDA200

2X80 W_{RMS} / 8 ohms
2X120 W_{RMS} / 4 ohms
Power supply: 340 VA + 30VA

Remote control
on serial

DAC & Pre-amp / connecting:

2 USB « A » Inputs (1 front & 1 rear) up to 24 bits/192kHz
- 3 digital Inputs:
    - 1 USB « B » (asynchronous 24 bits/192KHz)
    - 1 Coaxial SPDIF (24 bits/192KHz)
    - 1 Optical SPDIF (24 bits/96KHz)

- 1 RJ45 network link
- 1 Wifi antenna
- 1 Stereo RCA analog Output
- 1 Trigger 12V output
- 1 headphones Output (on front panel)
- 1 pair of terminal Outputs

CONVERTER

DAC100SE

- 2 independent transformers (with 1 exclusive for analog audio)
- 7 regulated supplies
- D/A Converters: BURR BROWN PCM 1796
- Output stages with discrete components without feedback
- MKP capacitors for audio links
- Accepted format for optical and coaxial inputs:
  16-24bit (44,1kHz, 48kHz, 96kHz and 192kHz)
- Accepted format for the USB input: 16bits (32kHz, 44,1 kHz, 48kHz)
- Optional remote control for volume control and sources selection

Connecting:

- 3 optical Inputs
- 3 coax. Inputs
- 1 USB Input (B type)
- 1 stereo analog. Output
- 1 optical Output
- 1 coax. Output

HEADPHONES AMPLIFIER / DAC / PREAMPLIFIER

HD100 - HD120

- 2 Headphones Jack Outputs (6,35mm – 1/4")
- Inputs Selection and Indicators
- Analog Volume Control (ALPS potentiometer)
- Optional Remote Control (volume and sources selection)
- Stand-by

Connecting:

- 2 Line Inputs (RCA)
- 1 Preamp. Output (RCA)
- 1 Coaxial Input (32bits/384kHz)
- 1 Optical Input (24bits/192kHz)
- 1 Trigger 12V output
  (direct swistsh on/off with MA100)

Additional on HD120:
- 1 USB-B 24/192kHz asynchronous input
- 1 Bluetooth input (i2C direct)

POWER AMPLIFIER

MA100

2X60 W$_{RMS}$ / 8 ohms
2X80 W$_{RMS}$ / 4 ohms
Power Supply: 170VA

- Fully symmetrical stages with discrete components
- Single pair of MOS-FET transistors per channel on outputs
- 170VA toroïdal transformer
- Stereo/Mono bridge

Connecting:

- 2 RCA Input/Output
- 2 loudspeakers Outputs
- Trigger 12V input
- Stereo/Mono switch

STREAMER MS100

Audio Streamer based on the same streaming platform and display as ATOLL Streamers able to read almost all audio files (up to 24 bits/192kHz) via network and USB.

Network Streamer:
Displays of all information's (covers, files names, time…) "gapless" system (uninterrupted playback of consecutive audio tracks). Readable formats: FLAC/WAV 176.7kHz & 192kHz/24bits, ALAC, AIFF, MP3…

Possible update via internet
- Wifi or RJ45 network connection
- Internet radio (vTuner – 15 000 radios + podcast)
- 2 USB-A inputs: 1 front & 1 rear
- 2 digital outputs (optical & digital)
- 1 analog output
- Control by app (Android & Apple)
- Remote control included (able to control also other Atoll's products)

AUDIO/VIDEO PREAMPLIFIER

PR5.1

Born from our experience in the field of sound reproduction, the PR5.1 gives you a realistic listening, precise and superbly musical. On the cutting edge of audio technology and equipped with multiple audio and video interconnect options, it fits perfectly into Hi-Fi and Home theater systems. As well, it stands out for ease of use and its unique quality/price ratio.

Technical facts :

Fully symmetrical stages with discrete components on the 5 channels;
Specific torroïdal transformer (160 VA) for audio section;
Optional DSP/processor board compatible
DTS/DOLBY-AC3/DOLBY-PROLOGIC II;
DSP CRYSTAL; converters BURR-BROWN 24 bits/96 kHz.

- 4 audio (stereo) inputs;
- 2 audio (video) inputs;
- 2 audio "6 channel" inputs;
- 6 digital inputs (3 coax. & 3 optical);
- 3 video inputs (composite & S-VIDEO);

- 2 video outputs (composite & S-VIDEO);
- 2 digital outputs (1 coax. & 1 optical);
- 1 audio "5+1 channel" output.

3 CHANNEL AMPLIFIERS

AV50 - AV80 - AV100

Combined with Stereo Integrated or amplifiers, 3 Channel power amplifiers, AV50, AV80 & AV100 are ideals for 5 channel audio-video system.

5 CHANNEL POWER AMPLIFIER

AV500

While keeping essential musical quality components, the AV500 offers a more compact solution and stunning performance in multichannel applications.

Connection of AV500:
- 5 RCA Inputs;
- 5 RCA Outputs (used for bi-amp);
- 5 loudspeakers Outputs.

PHONO PREAMPLIFIER

PHONO PREAMP

P200SE

- Symmetrical stage with discrete components
- MM/MC setup
- Audio class MKP capacitors
- Separated power supply
- 8 mm aluminium front panel (black or silver)

OPTIONAL BOARDS

ATOLL proposes a complete line of Phono boards which can be mounted on all IN & PR models (except IN30) OF Reference & Prestige series.

P50   **P100**

for MM cartridge

- MM/MC setup
- Symmetrical stage with discrete components.

WIRELESS BAORD

This option is composed with a USB dongle and a receiver reception board with antenna.

These elements establish a binding to transfer audio signals (regardless of the type of files or software) all exclusive wireless to the reception board pre-equipped on the AUX input.

Binding is done directly to your ATOLL's device from this USB stick suitable on any computer.

Audio performances:
- Transmission is equal to the CD format (16 bits/44 kHz) without any compression.
- Reception board is equipped with a Burr Brown PCM1754 converter (24 bits/192kHz).

Digital Board SPDIF

This board allows to convert digital SPDIF format (up to 24bits/96kHz).

TECHNICAL FACTS	IN 30	IN 50SE	IN 80SE	IN 100SE	IN 200SE	PR 100 SE	PR 200SE	PR 300SE	AM 50SE AV50	AM 80SE AV80	AM 100SE AV100	AM 200SE	AV 500	CD 30	CD50 SE-2	CD80 SE-2	CD100 SE-2	CD200 SE-2	DVD SACD 200	TU 80	PR5.1
Power Wrms/channel/8 Ω	50 W	50 W	80 W	100 W	120 W	-	-	-	50 W (*)	80 W (*)	100 W (*)	200 W (*)	2*100 W 5*80 W	-	-	-	-	-	-	-	-
Power Wrms/channel/4 Ω	70 W	70 W	120 W	140 W	200 W	-	-	-	70 W	120 W	140 W	200 W	2*140 W 5*120 W	-	-	-	-	-	-	-	-
Impulse power	90 W	90 W	150 W	180 W	300 W	-	-	-	90 W	150 W	180 W	300 W	150 W	-	-	-	-	-	-	-	-
Power supply	170	170	340	660	670	170	340	340	170	340	660	670	660	15+5	15+5	15+5	15+ 170	15+ 170	30+ 160	15	15+ 160
Total capacity (µF)	20 000	20 000	30 000	30 000	62 000	15 000	30 000	62 000	15 000	30 000	30 000	62 000	73 000	14 000	14 000	17 000	17 000	17 000	25 700		20 000
Number of inputs	4 + 1 Monitor (stereo)								AM: 2 AV: 3			2	5	-	-	-	-	-	-	-	8 stereo 3 video
Input impedance (kΩ)	220	220	220	220	220	220	220	220	47	47	47	220	47	-	-	-	-	-	-	-	100
Sensitivity (mV)	280	100	100	100	350	450	500	500	1.25 V	1.58 V	1.77 V	1.77 V	1.77 V	-	-	-	-	-	-	-	500
Rising time	3 µs	3 µs	2.5 µs	2.5 µs	2.5 µs	1.3 µs	1.3 µs	1.3 µs	1.5 µs	1.4 µs	1.3 µs	1.3 µs	1.3 µs	2 µs	2 µs	2 µs	1.5 µs	1.5 µs	1.5 µs	2.5 µs	1.5 µs
Bandwidth (-3 dB)	5 Hz-100 kHz	5 Hz-100 kHz	5 Hz-100 kHz	5 Hz-100 kHz	5 Hz-100 kHz	5 Hz-200 kHz	5 Hz-200 kHz	5 Hz-200 kHz	5 Hz-200 kHz	5 Hz-200 kHz	5 Hz-200 kHz	5 Hz-200 kHz	5 Hz-200 kHz	5 Hz-20 kHz	5 Hz-20 kHz	5 Hz-20 kHz	5 Hz-20 kHz	5 Hz-20 kHz	5 Hz-48 kHz	5 Hz-20 kHz	5 Hz-100 kHz
Output level	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5 V	2.5 V	2.5 V	2.5 V	2.5 V	2.4 V	2 V	-
Signal/noise	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	105 dB	105 dB	105 dB	105 dB	105 dB	125 dB	123 dB	75 dB	100 dB
Distorsion at 1kHz	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.005 %	0.005 %	0.005 %	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.005 % /10W	0.005 % /10W	0.002 %	0.002 %	0.002 %	0.002 %	0.002 %	0.005 %	0.2 %	0.005 %
Dimensions	440 x 90 x 280 mm																				
Weight (kg)	4	7	8	10	11	7	8	9	7	8	10	11	11	4	5	5	7	8	8	5	8

(*) All stereo power amplifiers are mono block bridgeable: respective power are x 2.5.

FINISH:

Possible finish for Reference and Prestige series:

Black

Silver

REMOTE CONTROL

The global remote control is available on option for IN30, IN50se, IN80se, IN100se, PR100se, PR200se, DAC100se and Tuner.

It is on serial with IN200se, PR300se, PR5.1, DAC200 and with all CD players.

Dealer's stamp

Brochure available for the 400 series including IN400 - PR400 - AM400 - CD-DR400se

ATOLL ELECTRONIQUE
Boulevard des Merisiers
50370 BRECEY
Phone: +(33)02 33 48 44 06
Web: www.atoll-electronique.com
e-mail: mail@atoll-electronique.com