

# THESIS

## TH uno

2300W Power Amplifier  
Mono Power Amplifier



  
ideato,  
progettato,  
costruito  
in Italia

### Power Supply

Voltage:	11 ÷ 15 VDC
Idling current (@ Dual Power Setting):	2.2 ÷ 8.5 A
Idling current when off:	0.04 mA
Consumption @ 14.4 VDC, 1 Ω,	
Max Musical Power:	132 A
Remote In:	7 ÷ 15 VDC (1 mA)
Remote Out:	12 VDC (20 mA)
Fuse (AFS):	150 A

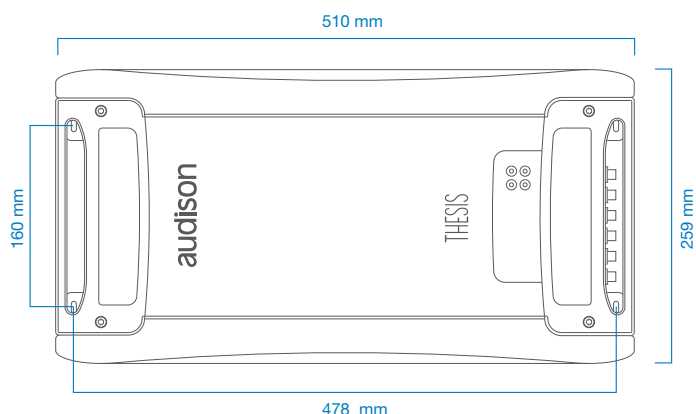
### Amplifier stage

Distortion - THD @ 1 kHz, 4 Ω; 90% Power:	0.01 %
Bandwidth @ -3 dB, 2 VRMS, 4 Ω:	5 ÷ 40k Hz
S/N ratio @ A weighted, 1 V, Max Power:	106 dBA
Damping factor @ 1 kHz, 2 VRMS, 4 Ω:	500
Pre-In sensitivity:	0.3 ÷ 4.8 VRMS
Pre-In impedance:	15 kΩ
Load impedance (Min @ Dual Power Mode - Hi-Current):	
• 1 Ch	1 Ω

Nominal power (RMS) @ 12 VDC, 1% THD:	
Dual Power Mode - Hi-Current:	
• 1 Ch @ 4 Ω	590 W x 1
Dual Power Mode - A Class:	
• 1 Ch @ 4 Ω	165 W x 1
Output power (RMS) @ 14.4 VDC, 1% THD:	
Dual Power Mode - Hi-Current:	
• 1 Ch @ 4 Ω	850 W x 1
• 1 Ch @ 2 Ω	1500 W x 1
• 1 Ch @ 1 Ω	2300 W x 1
Dual Power Mode - A Class:	
• 1 Ch @ 4 Ω	200 W x 1
Amp Chain Mode (two linked amplifiers):	
• 4 Ω	3000 W
• 2 Ω	4500 W

### CEA SPECIFICATION

Output power @ 4 Ω, 1% THD+N, 14.4 V:	700 W x 1 Ch
SN ratio (ref. 1 W output):	75 dBA



### Other functions

#### ASC (Audison Status Controller) FUNCTIONS

AMP IDentifications, DUAL POWER settings,  
AD Link inputs, AC Link digital bus, DRC controls,  
ACNet software, Status Monitor, Protections

### Inputs/Outputs/Filters

<b>Inputs:</b>	PRE - S/PDIF (Max 192 kHz / 24 bit) Optical and AD Link
<b>Outputs:</b>	PRE Bypass / AD Link
<b>Filters:</b>	Removable kit: (Hi-pass / Lo-pass / Bandpass 12/24dB) 32 steps 18 ÷ 7.5k Hz with 8 standard & 2 customizable modules
<b>Special Function (Linked Amplifiers):</b>	Master/Slave Bridged; Slave Chain

### Size

Max size (mm/inches):	259 x 510 x 67 / 10 <sup>n1/4</sup> x 20 <sup>n1/8</sup> x 2 <sup>n11/16</sup>
Weight (kg/lb):	10,3 / 22.71