

Step Down Transformer Voltage Converter

User Instruction Manual



American Step down Transformers:

100W, 250W, 300W, 500W, 1500W 1000W, 2000W, 2400W, 3500W

Auto Transformer Models (Economy)

SD110-100A, SD110-300A, SD110-500A, SD110-1010A, SD110-1500A, SD110-2000A, SD110-2400A

Isolated Models

SD110-50, SD110-100, SD110-250, SD110-500, SD110-1010, SD110-2000, SD110-3500



Japanese Step down Transformers:

100W, 300W, 500W, 1000W, 2000W

Auto Transformer Models (Economy)

SD100-100A, SD100-300A, SD100-500A, SD100-1010A, SD100-2000A

Isolated Models

SD100-50, SD100-100, SD100-300, SD100-500, SD100-1010, SD100-2000

Thank-you for purchasing a TorTech Step Down Transformer!

Tortech Transformers maintain their power rating 24/7

Thermal cut-out and safety fuse included for your Protection.



This transformer will step down your Australia power from 240v to 110V for USA step down transformers or to 100V if used with our Japanese step down transformers.

Operating Instructions - Please read this manual:

- Plug this transformer into your Australian mains power outlet. Connect your appliance to the outlet sockets. Switch on the transformer and you are ready to go! When not in use turn off transformer switch (if included).
- Please ensure the required wattage of your appliance is less than the transformers rated capacity.
- If your transformer has multiple US outlets (or using with a US board) please ensure the simultaneous power use of all connected devices not exceed the power rating of the transformer.

Storage and use:

- **Note: Transformer is designed for INSIDE use only NOT outdoors.**
- **Please ensure the transformer is placed in a dry and well ventilated area at all times with 10 cm of space around ventilation grills.**
- **Do not cover ventilation grills on the side or top of unit.**
- Do not expose to direct sunlight or direct high heat
- Keep out of reach of children
- Keep away from water, moisture, liquids or oils or flammable substances.

Warranty:

All Tortech step down transformers come with a 1 year warranty. Please keep your invoice with date of purchase as proof of warranty. No serviceable parts inside the unit. Opening or misuse will void warranty. Return for authorised servicing.

Safety Compliance Approvals:

RCM tick of approval demonstrates Tortech Pty Ltd's commitment to mandatory Australian Electrical Safety EESS Legislation



Overloading:

Fuses often blow when you draw more current than what the transformer can provide. They are part of the inbuilt safety protection of our transformers. If you keep blowing a fuse repeatedly after first purchase you may have the wrong transformer please call us to check your device and transformer rating.

Idle Currents: Power use when no current draw (not in use) is highly efficient with Tortech step downs For individual Idle current ratings See: <https://www.tortech.com.au/wp-content/uploads/tortech-voltage-converters-idle-currents.pdf>

Fuse replacements:

All our step down transformer come with 2 spare fuses in the original package. Please put the fuses aside when you first open box.

How do I know if the fuse is blown?

If your stepdown has a Led Light on the switch and if this light does not come on when transformer is turned on this is an indication the fuse has blown.

HOW TO REPLACE THE FUSE:

Video: <http://www.tortech.com.au/fuses/>

1) Turn off the power at the 240v power point and **unplug the lead from the power point.**

2) Unscrew the fuse Holder

3) **Turn it anti-clockwise until the fuse "pops out"**

4) Remove the fuse holder plus the fuse

5) Check if that the fuse is intact : *Look at the*

removed fuse in the light and if the inside filament is broken or the glass is browned out then the fuse is blown.

6) Put a new fuse in the holder

7) Push back into the fuse main body

8) **Turn the fuse holder clockwise** until its locked in

9) Plug in the lead into the power point.

10) Turn the power on at the 240v outlet



Replacement fuses Fuses are selected based on your model and rating. Fuses can be purchased from Tortech.

PART NUMBER	RATING
Auto USA models	
SD110-100A	1.25A Fuse SEC
SD110-300A	3.15A Fuse SEC
SD110-500A	5.00A Fuse SEC
SD110-1010A	10.0A Fuse
SD110-1500A	10.0A Fuse
SD110-2000A	10.0A Fuse
Isolated USA Models	
SD110-100	1.0A Fuse M205 Style
SD110-250	2.5A Fuse M205 Style
SD110-500	5.0A Fuse M205 Style
SD110-1010	10.0A Fuse 3AG Style (was 8A)
SD110-1500	10.0A Fuse 3AG Style
SD110-2000	10.0A Fuse 3AG Style
SD110-2400	12.0A Fuse 3AG Style
SD110-3500	20.0A Fuse 3AG Style
Isolated Japanese Models	
SD100-50	0.63A Fuse M205 Style
SD100-100	1.25A Fuse M205 Style
SD100-300	4.0A Fuse M205 Style
SD100-1010	10.0A Fuse 3AG Style
SD100-1500	10.0A Fuse 3AG Style
SD100-2000	10.0A Fuse 3AG Style
Auto Japanese Models	
SD100-100A	1.25A Fuse SEC
SD100-300A	3.15A Fuse SEC
SD100-500A	5.00A Fuse SEC
SD100-1010A	10.0A Fuse
SD110-2000A	10.0A Fuse

