

TORUS POWER AVR ELITE SERIES



- Cloud-based website for monitoring, control, data logging and reporting
- Works with all mobile devices and tablets
- Installer Dashboard
- WiFi Connectivity for firmware updates

3 WAYS TO USE AVR ELITE

1. **STAND-ALONE MODE:** Plug and Play
2. **LOCAL NETWORK:** Web Page Access
3. **CLOUD CONNECTION:** Torus Power Connect



TORUS POWER AVR ELITE SERIES

FULL FEATURES:

- Toroidal isolation provides ultimate clean power performance
- Automatic voltage regulation with 8V increments maintains stable voltage output
- Series mode surge suppression protects against lightning, surges, spikes etc.
- Connect to local network using Web page browser
- Addressable outlet zones for control and monitoring
- Scheduling and sequencing of outlet zones
- Password control
- Email notification of fault conditions
- No programming or internet connection needed
- Powerful 32-bit processor
- Large graphical display of key power parameters
- Internal Flash Memory for 10,000 events to record data when cloud unavailable
- Internal high reliability power supply module
- Enhanced communication module including WiFi connectivity
- USB for 3rd party connectivity, LED lighting, and charging
- Optical isolation between high voltage and low voltage to increase safety and compliance to new standards

“
THERE IS NO EQUIVALENT TO WHAT
THE TORUS POWER ISOLATION
TRANSFORMERS CAN ACCOMPLISH
IN ANY SIZE INSTALLATION.
”

DENNIS ERSKINE | ERSKINE GROUP, INC.

TORUS POWER CONNECT FEATURES:

- Works with all mobile devices and tablets
- Installer Dashboard For monitoring & control of single and multiple installations
- WiFi Connectivity for firmware updates
- One year Torus Power Connect Subscription included with each unit
- Live polling of power quality data
- Graphical dashboard of key power parameters
- Data logging and cloud storage
- Reports on demand to Torus Connect subscribers of key power events (.csv & .pdf format)

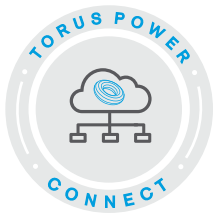
TORUS POWER CONNECT CLOUD-BASED WEBSITE FOR MONITORING,
CONTROL, SCHEDULING, DATA LOGGING AND REPORTING

WWW.TORUSPOWERCONNECT.COM

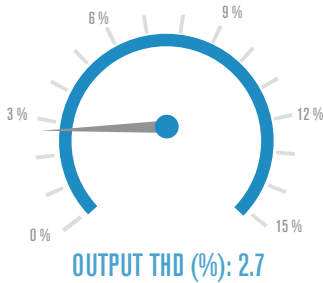
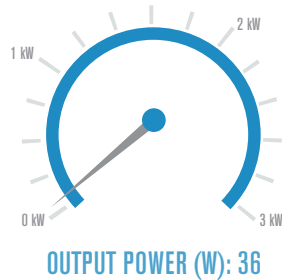
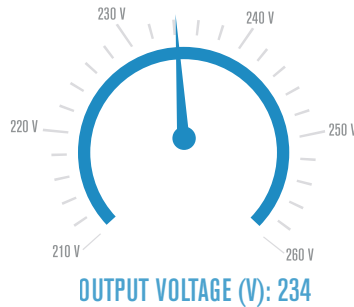
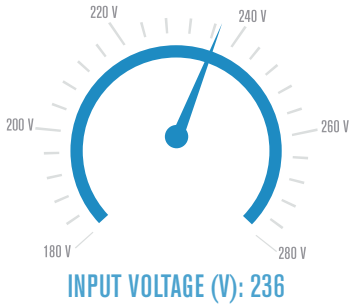


“
I HAVE NEVER EXPERIENCED A COMPONENT
THAT SO DRAMATICALLY AFFECTED THE SYSTEM
PERFORMANCE, IN A POSITIVE WAY, AS THIS NEW
TORUS PIECE HAS.
”

JOHN G. | CHICAGO, IL



TORUS POWER CONNECT SYSTEM STATUS SCREEN INDICATING INPUT AND OUTPUT VOLTAGE, CURRENT, POWER CONSUMPTION, AND LINE DISTORTION. REFRESH BUTTON PULLS DATA IN REAL TIME.



SYSTEM STATUS REPORT FROM WEB PAGE

Voltage In (V)	236.6
Voltage Out (V)	234
Current Out (A)	0.3
Power Out (W)	36
Output THD (%)	3
Tap Number	3

Zone Values	
A	ON
B	ON
C	ON
D	ON

TORUS POWER CONNECT COLLECTS DATA AND MAKES IT AVAILABLE ON DEMAND, FOR UP TO 3 MONTHS. THIS REPORT INDICATES INPUT AND OUTPUT VOLTAGES, LINE HARMONIC DISTORTION, WHAT TAP IS USED, OUTPUT CURRENT, POWER CONSUMPTION, AND FAULT CONDITION (NONE REPORTED).

Voltage In (V)	Voltage Out (V)	Output THD (%)	Tap	Current Out (A)	Power Out (W)	Fault
236.6	234	3.2	1	0	0	0
236.6	234	2.7	1	0	0	0
236.6	234	3.4	1	0	0	0
236.6	234	3.4	1	0	0	0

INSTALLER FRIENDLY:

- Manage multiple installations from Torus Power Connect dashboard
- Remotely monitor and respond to user issues; ie Reboot any zone remotely
- Set up schedule to conserve energy based on usage pattern
- Develop recurring revenue through Torus Power Connect subscriptions

3 WAYS TO USE AVR ELITE

1. SIMPLEST: STAND-ALONE MODE

No internet connection required. Plug and play.

2. LOCAL NETWORK:

Web Page access – Set up, monitor and control on mobile devices, tablets, or computers on local network using Torus Power web page. Hard-wired network connection required.

3. CLOUD CONNECTION:

Torus Power Connect - Built-in WiFi allows connection to Torus Power Connect cloud-based website.



TECHNOLOGY

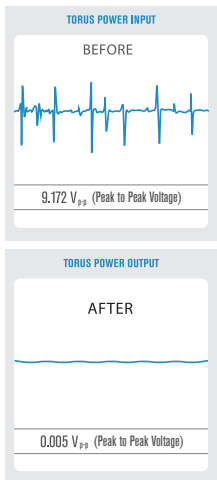
TOROIDAL ISOLATION



Torus Power toroidal isolation transformers electrically isolate connected equipment from the incoming power. These transformers are engineered and manufactured by Plitron, the world's leading innovators in toroidal technology. Torus Power toroidal isolation transformers feature triple shielding for ultimate noise attenuation and isolation from the increasingly LONO (Low Noise) technology eliminates audible noise in the Torus

Power transformer regardless of line conditions, including DC offset and over-voltage. To ensure ultra-silent operation, a retaining band (for 3U and larger models) suspends the transformer inside the cabinet. Torus Power meets the exacting NC10 acoustic noise standard, making it suitable for use in the quietest environments (including recording studio control rooms).

NBT NOISE FILTERING (NARROW BANDWIDTH TECHNOLOGY)



Torus Power output: Perfectly clean power as the noise between line and neutral is eliminated.

Torus Power toroidal isolation transformers restore incoming power to its clean original state using Plitron's NBT transformer technology. Torus Power's design carefully balances the inherent inductance, capacitance, and resistance characteristics of the toroidal transformer, enabling the transformer to act as a very effective low-pass filter. The corner frequency for noise attenuation is 2 kHz with an attenuation rate of 12dB/decade to 500 kHz. Another important advantage of NBT technology is the elimination of external filters, such as capacitors, and other components that can fail over time. Torus Power attenuates both Differential Mode (L-N) and Common Mode (G-N) noise.



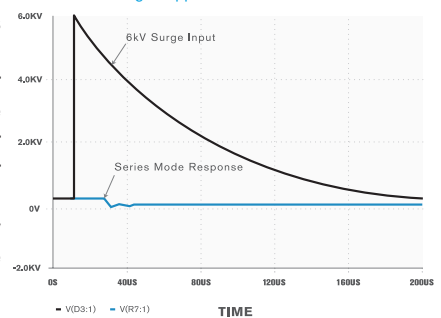
SURGE PROTECTION (SERIES MODE SURGE SUPPRESSION)



Torus Power protects connected equipment through innovative series mode surge suppression that also pays attention to keeping the power clean. Most surge suppression circuits are shunt-mode. Excessive voltage surges are "shunted" to ground, which raises ground voltage and may contaminate audio and video signals. Torus Power's design absorbs surges more than 2V above peak line voltage, so ground is not affected.

Torus Power surge suppression meets IEEE endurance standards of 6000 Volts, 3000 Amps, with 1000 repeats. Torus Power further innovates by using the toroidal isolation transformer to replace the series inductor typically used by other brands. This ensures extremely low stray magnetic fields within the chassis.

Series Mode Surge Suppression



HIGH INSTANTANEOUS CURRENT CAPABILITY



Torus Power provides very low source impedance to connected devices. A low impedance power source enables high current delivery on an instantaneous basis, ensuring components are not starved for power. For example, a typical 200W audio amplifier demands 10A RMS current from a 120V line but may demand up to 50A instantaneous peaks. Standard residential and commercial wiring and wall receptacles will restrict the

available instantaneous current. A 15A or 20A Torus Power toroidal isolation transformer can deliver 300A or 400A peaks when the system demands it, allowing the highest power amplifiers to deliver maximum performance and dynamics without strain or compromise. The High Instantaneous Current Capability provides the expanded dynamic range experienced when using Torus Power.

AUTOMATIC VOLTAGE REGULATION (AVR)



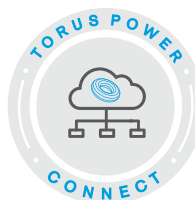
Voltage sags, brownouts and surges can stress components and shorten equipment life. Torus Power AVR deals with these problems effectively, providing stable voltages for your valuable equipment. AVR technology continuously monitors incoming mains voltage to detect high and low voltage conditions, and seamlessly and instantaneously triggers compensating circuitry to ensure the voltages powering your equipment are always optimal. Torus Power AVR feature is preprogrammed to power off the system when voltage fault conditions occur, adding another level of protection. An attractive front panel LCD displays voltage conditions (input/output voltage), current draw, IP address, and power line distortion.

CUSTOM CONTROL



The AVR ELITE series provides IP-addressable and cloud-addressable outlet zones that enables sequencing and scheduling. There are 4 zones on 8 Amp units, and 7 zones on units rated 76 Amps and higher. Every unit also has an additional zone that can be used to automatic re-boot the unit when the internet goes down, or configured as an extra zone.

TORUS POWER CONNECT



Torus Power Connect is a powerful cloud-based website developed by Torus Power for control, data logging and reporting. Torus Power Connect provides Dealers and Installers with a custom dashboard to access each Installation, and enabling remote access, trouble-shooting, and control. The same features are available for Torus Power Connect users for their individual installation.