

# CleanSweep®

## Power Distribution Unit (PDU) with EMI Filtering and Advanced Transient Surge Protection

### Clean Power Free of Transients and High-Frequency Noise

OnFILTER CleanSweep® EMI power distribution units (PDU) provide transient-free and noise-free AC power for your sensitive equipment. Innovative design accomplishes a combination of multi-stage transient surge protection and maximum noise suppression of signals polluting your power lines and ground, freeing your equipment from harmful interference.

Safe and clean power is essential for uninterrupted and problem-free operation of electrical and electronic equipment. Transient surges and electromagnetic interference (EMI) spreads through power lines and ground, causing downtime and errors in today's equipment and may inflict equipment and component damage.

Unique design of OnFILTER' CleanSweep® series focuses on the properties of real-life signals on power lines and ground and produces maximum attenuation of the "worst offenders" on power lines.



Various configurations available

### Applications

- Data Centers
- Electronic manufacturing
- Semiconductor fabrication
- Test and measurements
- Industrial robotics
- Medical
- Military and aerospace
- Wherever EMI is an issue

### Features

- Easy plug-in installation
- Optimized for power lines
- Effective noise suppression for all types of noise
- Advanced surge transient protection
- Models for up to 250V AC 30A

### Increased Up-Time

OnFILTER' CleanSweep® power distribution units reduce equipment downtime caused by transients and EMI and increase its performance and productivity by providing clean power to your sensitive equipment

### Real-Life Applications

Unlike commodity filters designed for compliance measurements in a laboratory environment, CleanSweep® filters are optimized for effective suppression of surge transients and noise in actual applications providing superb attenuation in broad range of power disturbances.

### Suppression of Transients and EMI Noise on Power Lines and Ground

OnFILTER' CleanSweep® PDU provide transients and noise suppression for differential mode (between power' live and neutral), common-mode (between live, neutral and ground) and, uniquely, for ground itself

### Advanced Surge Protection

OnFILTER CleanSweep® series PDU utilize multi-stage surge protection by reducing residual high-voltage "spikes" down to a negligible level

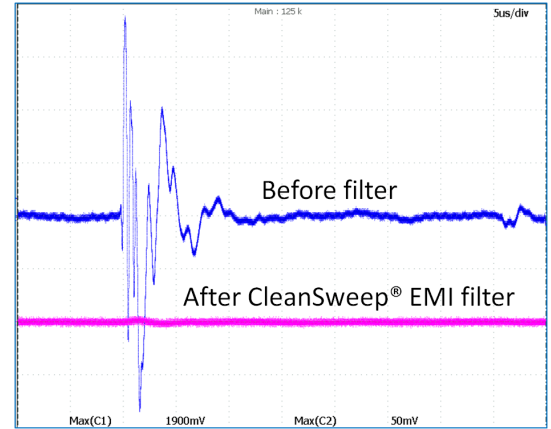
## CleanSweep® AR Series PDU with Advanced Surge Protection and EMI Filtering



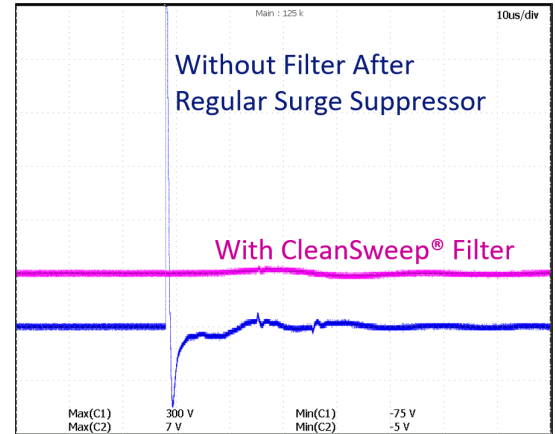
# Specification

OnFILTER CleanSweep® rack-mounted PDUs incorporate two stages of surge transient protection and EMI filters utilizing proprietary technology to provide maximum noise and surge transient suppression for your sensitive electronics.

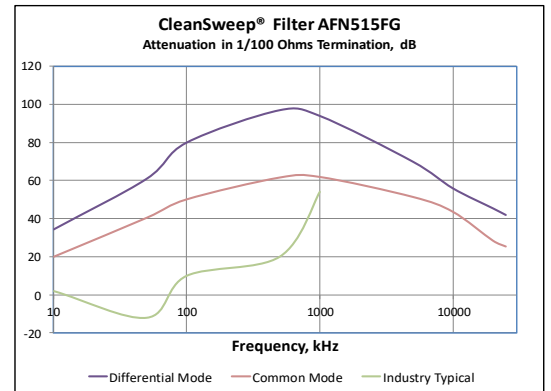
Parameter	AR Series PDU
Some parameters vary depending on specific configuration	
<b>Absolute Maximum Ratings</b>	
Rated Voltage, RMS	110...250V
Rated Current, RMS total for all outlets	10 to 30A
<b>Transient Surge Suppression</b>	
High peak surge current rating	22kA, single 8/20µs pulse
Clamping voltage—short transients	less than 10V (typ.)
Clamping voltage—long surges	under 640V
<b>EMI Filtering</b>	
Types	Differential mode; Common mode; Ground
Pulse Attenuation (typical or better):	
Differential mode	24dB
Common mode	20dB
Continuous emission	See graphs of typical performance. Measured in 1/100 Ohms setup (closely resembles actual environment)
Switch	Switch integrated with circuit breaker
Power Indication	Light
Dimensions	19" rack, 2-up



Typical Performance (Differential Mode)



Typical Power Surge Attenuation



Typical Frequency Domain Attenuation

## Application Notes

If you looking at this datasheet on a computer, you can click on any of the links below to the Application Notes which are available in the [Library](#) on our web site:

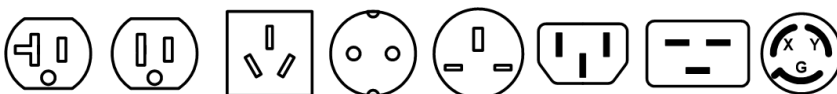
[CleanSweep® EMI Filter in Surge Protection](#)

[CleanSweep® EMI Filters Protect Data Centers](#)

[CleanSweep® AC Filters and UPS](#)

## Ordering Information

CleanSweep® rack-mounted PDUs are available with wide variety of interconnects for world-wide applications. Please contact the factory for your specific requirements.



**OnFILTER, Inc.**

730 Mission Dr. Ste. 102  
Santa Cruz, CA 95060 U.S.A.

Tel. +1.831.824.4052

FAX +1.206.350.7458

[www.onfilter.com](http://www.onfilter.com)

[info@onfilter.com](mailto:info@onfilter.com)

