



Professional Power Solutions Trusted by NASA, Now for Audio

OnFILTER offers the most effective EMI suppression in the industry, trusted by NASA, quantum computing companies, major R&D laboratories and universities, Fortune 500 companies, factories around the globe, aerospace, and defense. OnFILTER' U.S.-made products are shipped to ~40 countries and counting in Europe, Asia, the Americas, Australia, and even to Antarctica.

Key Sources of EMI:

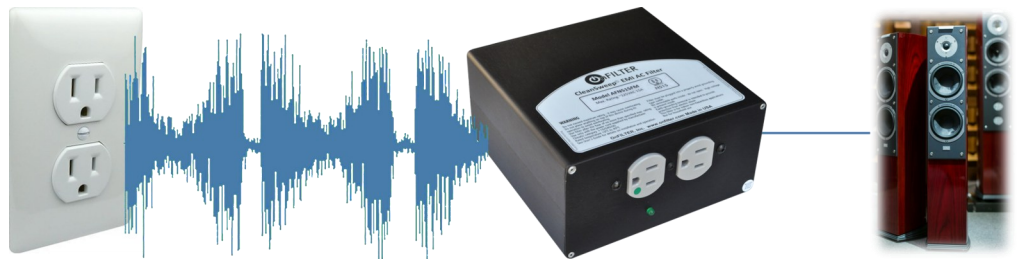
- Variable frequency drives (VFD): appliances, HVAC
- Switched mode power supplies (SMPS): equipment has them
- LED lights: driven by SMPS
- Solar panels: inverters
- EV chargers: use SMPS
- EMI from neighbors: share the same power and ground

Key Benefits of OnFILTER' Products:

- Focus on performance, not on frills
- Comprehensive approach:
 - Differential mode (Live<>Neutral)
 - Common mode (Live/Neutral<>Ground)
 - Ground itself
- High level of EMI suppression in real-life applications
- Advanced transient surge suppression
- Completely passive—nothing is generated by the filter
- Low output impedance prevents intermodulation distortion and supports wide dynamic range
- Designed to deal with high EMI levels at the factories
- Industrial grade construction
- Reasonable price

Why Choose OnFILTER?

- Solid engineering
- Proven technology used in many different applications worldwide
- Hard verifiable specification—not just marketing claims
- No sonic coloration - completely passive design
- Significantly lower price than audiophile-branded alternatives
- Made in USA, industrial grade construction



Our filters are designed for the worst case scenario—to deal with very strong EMI at the factories and in the places where power quality is really bad, enabling work in applications such as R&D labs in quantum computing.

CleanSweep® AC EMI Filters

AF Series



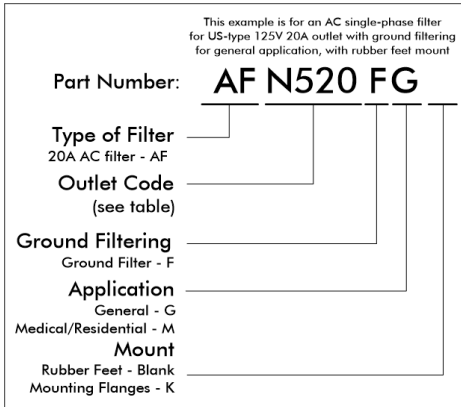
AFN515FM shown

Specification

| Parameter | AF Series Filter |
|--|--|
| Rated Voltage, RMS | 110...250V |
| Rated Current, RMS depending on outlet type | 13 ... 20A |
| Leakage Current | |
| Standard models | <3.5mA |
| Hospital/Residential version | <0.5mA |
| Power Indication | LED |
| Inlet | IEE320 C20 |
| Circuit Breaker | According to rating |
| Dimensions (WxDxH) (rubber feet mount) | 6.15"*6.1"*3.20" 157*155*81mm |
| Weight | 2 lb 10 oz/1.2 kg |
| Approvals | UL1283; UL/IEC60939 Medical/Residential |



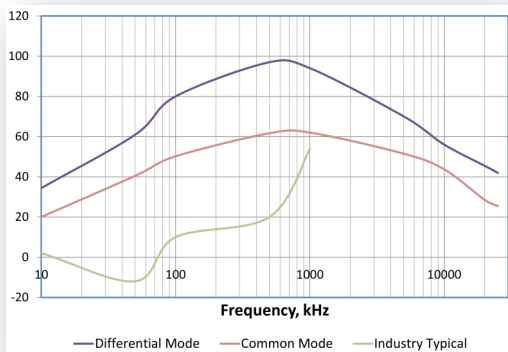
Each CleanSweep® filter includes power cable of the same type as its outlet (unless configured with the terminal blocks) and the User's Guide



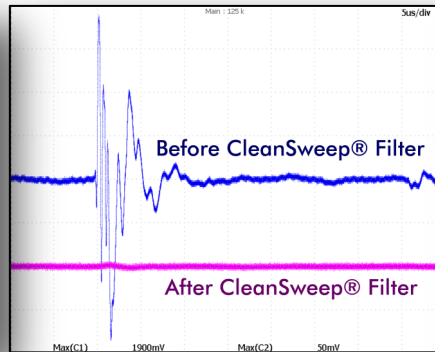
CleanSweep AF Series 20A Family

| OUTLET | ORDERING CODE | OUTLET | ORDERING CODE | OUTLET | ORDERING CODE |
|--------|---|--------|---|--------|---|
| | N515 -125V 15A | | N615 -250V 15A | | EUSK -250V 16A |
| | N520 -125V 20A | | N620 -250V 20A | | EUUK -250V 13A |
| | 309A1 IEC60309 2W3P (yellow) -120V 20A | | 309B1 IEC60309 2W3P (blue) -250V 16A | | 309B2 IEC60309 2W3P (blue) -250V 20A |
| | L515 -125V 15A | | L520 -125V 20A | | BS546 -250V 15A |
| | L615 -250V 15A | | L620 -250V 20A | | TS03A TERMINAL BLOCK SINGLE PHASE 20A |

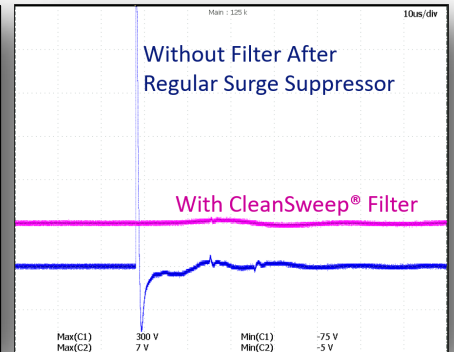
Typical Attenuation, dB in 1/100 Ohms



Example of Noise Attenuation



Transient Surge Suppression



Other Members of CleanSweep® Family



AP Series 3A



AL Series 10A



AF Series 30A



AF "EG" Series
Reverse Configuration



AV Series 20A
DIN Rail

CleanSweep® Filtered Power Distribution Unit (PDU)



ARN5156FD shown

Key Features:

- Same performance as CleanSweep® AC EMI filter
- Dual stage transient surge suppression
- 19" rack or table-top
- 6 NEMA5-15 or 8 IEC320 C13 outlets
- Intelligent display (voltage, current, power, energy)
- Each PDU ships with the selected power cable

Specification

| Parameter | AR Series PDU |
|-----------------------------------|--|
| Rated Voltage, RMS | 250V Max. |
| Rated Current, RMS | 20A Max. total for all outlets. |
| Transient Surge Suppression | |
| High peak surge current rating | 22kA, single 8/20µs pulse |
| Clamping voltage—short transients | Less than 10V (typ.) |
| Clamping voltage—long surges | under 640V |
| EMI Filtering Types | Differential mode Common mode; Ground |
| Inlet | IEC320 C20 |
| Outlet | |
| AREC148FD | IEC320 C13 * 8 |
| ARN5156FD | NEMA 5-15 * 6 |
| Power switch | Switch integrated with circuit breaker (20A) |
| Display | Voltage, current, power, energy |
| Dimensions | 19" rack, 2-up |
| Width (no ears) | 17" / 432 mm |
| Depth | 8.01" / 204 mm |
| Height | 3.48" / 88.4 mm |

Ground EMI Filters



GLE30-1



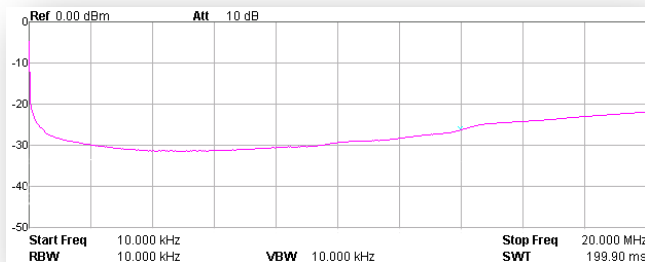
Each CleanSweep® filter already includes filtering in ground. These ground filters can be used for grounding in power branches if CleanSweep® filters are not used.



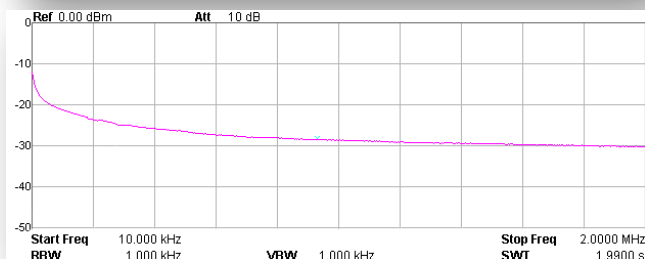
GLV30-1



| Parameter | GLE30-1/GLV30-1 |
|-------------------------|------------------------------------|
| Rated Max. Current, RMS | 30A |
| Power Line Frequency | 50/60 Hz |
| DC Resistance | <0.2 Ohms |
| External Wire Gage | AWG14...6 |
| 1.6...4.1mm diameter | |
| Dimensions (WxDxH) | |
| GLE30-1 | 2.56"x5.63"x1.75" (67x143x44mm) |
| GLV30-1 | DIN rail, 35mm width |
| Approvals | UL1283; UL/IEC60939 |



High Frequencies



Low Frequencies

About OnFILTER

OnFILTER was established in 2010 in California. It manufactures high-performance EMI filters of many types: AC, DC, ground, soldering, motion control, data, power line communication (PLC), as well as EMI instrumentation. Our customers come to us when they need to deal with ultra-sensitive equipment, very low signal levels, automation precision, and, overall, strong protection from EMI for proper operation of their equipment.

OnFILTER products outperform conventional filters on the market. We don't do textbook "copy and paste" designs—our filters are designed and optimized for real-life applications. OnFILTER is heavily involved in the latest developments in technology—we know what is ahead of the proverbial "curve". Investment in our filters will protect your equipment tomorrow, not only today.

Audiophiles discovered our products and like them. Among the benefits of working with OnFILTER is that our products don't carry "high end" price tag—we offer solid performance at a reasonable price.

OnFILTER founder and president, Vladimir Kraz, holds master's degree in audio and is an author of 25 U.S. and international patents. He leads electromagnetic compliance task force at SEMI Standards (a consortium of semiconductor manufacturing companies worldwide setting standards for the entire industry).



Our filters are found in these and other applications:

- Robotics
- Semiconductors
- Quantum computing
- Aerospace (including NASA)
- Defense
- Metrology
- R&D laboratories and universities
- Industrial control
- Chemical plants
- Food manufacturing
- Medical imaging
- Data Centers

What Our Customers Say

I tried a number of power conditioners, filters and EMI/RFI reducing products marketed to audiophiles. None of them had much effect reducing EMI/RFI. The only devices that performed as promised and significantly reduced EMI were CleanSweep filters made by OnFILTER, www.whatsbest.com

We compared the AP series AC EMI filter and the TrippLite power conditioner and the Furman AC-215A.. The AP series 3A AC EMI filter was the only one that eliminated the effects of the IEC test (Electrical Fast Transients and Bursts) on the device under test. Congrats. D.H., Medical equipment mfg. USA

It took me just 5 mins of playback to realize that this is an amazing product. It has significantly improved the SQ of my system. All the regular superlatives apply in my case to the improvement like bass has become tighter, details have increased, micro-transients have improved, sense of black background is even more, music sounds more organic, notes decay for longer etc. etc. The list goes on and on. I am enjoying music even more now. S.A., India

*Certainly, using one of OnFILTER's CleanSweep filters would work well to reduce or eliminate transient EMI contaminating power lines from things like soldering stations or industrial machines using servo or variable speed drives
Ken Wyatt, USA*

*We installed the filters, did some initial testing, and then did some more extended config and testing. So far we have been rock solid on amp performance, and according to the audio install guys, it seems like we are both getting better raw performance as well as have had the system running without issues longer than it ever ran previously.
Church Sound Installation, Chicago*

*I think you build an excellent product that the audiophile industry ought to know about,
K.F., Canada*

*The units (CleanSweep AC EMI filters) wiped out any background electrical hash- and produced the quietest background I've ever heard in my system, remarkable for vacuum tubes amplifiers... Frankly, I think this is benchmark product. Thank you for your time and patience conversing with me on the phone
R.H., USA*

*...just installed the filter and ... noticed tighter bass response and extended high frequencies. There was also an increase in dynamic range. Much appreciated!
S.A., USA*



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