

# THE NEW GENERATION

of Schaffner's  
Active Harmonic Filters



## Press Release

**The Schaffner Group introduces ecosine active sync series, the new generation of modular, compact, effective and reliable active harmonic filters.**

Schaffner, the international leader in the field of electromagnetic compatibility and power quality, is again setting a benchmark with its product offering for harmonics mitigation solutions. ecosine active sync utilises superior technology to reliably mitigate excessive harmonics with an evolutionary modular product concept.

With the new ecosine active sync filters FN 3530/31/40/41, FN 3532/42 and FN 3545 Schaffner now offers the most effective harmonic mitigation solution available, especially for mixed load and dynamic load profiles. By deploying ecosine active sync filters it is possible to achieve a THID  $\leq 5\%$ . They also guarantee compliance with the toughest requirements of IEEE-519 and other stringent international power quality standards while being the most effective and compact active harmonic filters available in the market. The filters demonstrate excellent performance over an extended temperature range (power module 0 - 50°C full performance, up to 55°C with derating). With the installation of the new ecosine active sync filters, harmonic current mitigation, reactive power compensation as well as load balancing can be efficiently achieved and international power quality standards complied with. Furthermore, the electrical infrastructure is unburdened and its utilization is much more efficient and reliable.

With their modular concept ecosine active sync filters offer a unique market leading flexibility, which enables optimal customer-tailored solutions. Ecosine active sync filter systems can be easily installed as wall-mount devices based on 60 Arms power modules. These modules are available in IP 20 and IP 21 protection class and in 3-phase 3-wire and 3-phase 4-wire configurations. Two power modules in a master-slave architecture can be configured as a dedicated solution for 120 Arms. The Double Power Pack (DPP) offers real 120 Arms without derating up to +50°C. For higher current ratings, up to 5 ecosine active sync power modules can be connected in parallel to mitigate harmonic current up to 300 Arms. This can be done either as a wall-mount solution or within Schaffner's new IP 54 air-cooled cabinet. Aligning product offerings with international market requirements and customer expectations, the new Schaffner modular filters ensure the best tailored solutions and optimal fit for demanding applications and networks.



**Schaffner EMV AG**

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Ecosine active sync filters FN 3530/31/32 are designed for 50 Hz and 60 Hz, 380 VAC to 480 VAC 3-phase 3-wire power grid, while the FN 3540/41/42 are designed for 50 Hz and 60 Hz, 380 VAC to 415 VAC 3-phase 4-wire grid. Power modules and DPP are available as protection category IP 20 (IP 21 as an option), while cabinet versions are of IP 54. All filters are CE-marked and RoHS compliant. Ecosine active sync filters are simple to install and maintain and are fully integrated in Schaffner's popular and simple to use online power quality simulator the SchaffnerPQS3.

For further information, please visit the landing page, <https://impulse.schaffner.com/en/ecosine-active-sync> or get in touch with your local Schaffner sales point or Schaffner partner for individual support.

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**For more information:**

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**Schaffner – Shaping electrical power.**

Schaffner is the worldwide leading consortium in the fields of 'electromagnetic compatibility' and 'power quality'. With its components it supports solutions for an efficient and reliable use of electric energy. With its products and services Schaffner Group significantly contributes to the promotion of technologies for the generation of renewable energies, ensures the reliable functioning of electronic devices and systems in compliance with all important quality and performance standards, and meets the requirements for increasing energy efficiency