

ACTIVE POWER FILTER- CLEANER CURRENT FOR INDUSTRIAL POWER SYSTEMS

Compensate harmonic currents generated by industrial loads and improve the current drawn from the grid.

INNOVATION BORN FROM TESTING

Prima Electro developed its APF to address the harmonics generated by regenerative converter test benches. Designed by our R&D team for demanding operating conditions, it draws on direct experience in full power testing and industrial power electronics.

FULL POWER TESTING



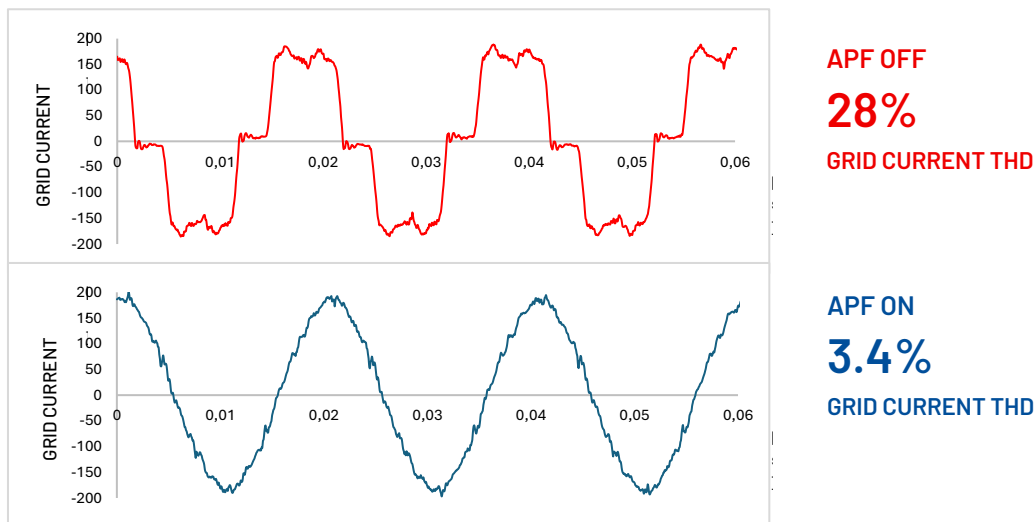
HARMONIC CHALLENGE



APF DEVELOPMENT

HOW IT WORKS

Connected in parallel with the load, the APF measures system current and injects compensating current to reduce the harmonics seen by the grid.



Note: Same experimental setup, measurement point and operating condition: APF OFF/ON. Waveforms are illustrative. The percentages refer to the measured industrial test.

WHAT ENABLES

01. HARMONIC COMPENSATION

Reduces low order harmonic currents drawn from the grid.

02. REACTIVE POWER COMPENSATION

Helps reduce reactive current demand.



WHERE APF ADDS VALUE

Applications with non-linear or regenerative loads.



REGENERATIVE
TEST BENCHES



INDUSTRIAL
DRIVE SYSTEMS



PLANTS WITH
NON-LINEAR
LOADS

REFERENCE SPECIFICATIONS*

RATED CURRENT	150 A _{rms}
PEAK CURRENT	370 A
GRID VOLTAGE	380–480 V ±10%, 50/60 Hz
WEIGHT	85 Kg
DIMENSIONS (H x W x D)	800 × 300 × 300 mm
STANDARDS	IEEE 519, IEC 61000-3-4

* Values refer to the experimental converter. Final specifications depend on the application.