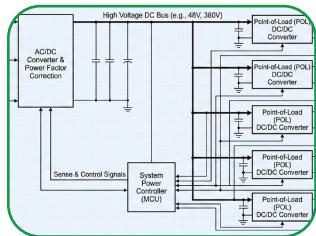


## POWER FACTOR CORRECTION MODULES

### ACHIEVE NEAR-UNITY POWER FACTOR WITH PICO ELECTRONICS

Poor power factor wastes energy, compromises system reliability and fail international standard. Pico Electronics AC-DC Power Factor Correction Modules are the **turnkey solution** to meet near-unity power factor (0.99) in a rugged, compact solution. Engineered for seamless integration, they actively correct the input to deliver **clean, reliable**, isolated 5-300VDC or non-isolated 365VDC for the most demanding military, industrial, and commercial applications.



#### Distributed Power Architectures

Pico's PHA Series acts as the ideal front end for **distributed power systems**, converting universal AC mains into a non-isolated regulated 365VDC bus. It efficiently feeds downstream isolated DC-DC converters at the point of load, reducing line losses. This centralized conversion simplifies **thermal management** and **maximizes system efficiency** in a compact footprint.



#### Military COTS & Avionics Systems

Engineered for mission-critical reliability, these PFC Modules withstands **shock, vibration**, and **extreme temperatures**. Accepting inputs up to 440 Hz, they are perfect for avionics and ground vehicles using 400 Hz frequency. This rugged design lets engineers integrate COTS components that meet rigorous environmental standards.



#### High-Voltage Industrial Motor & Laser Drives

Providing direct high-voltage DC for **servo motors** and **laser equipment**, PFC Modules eliminate bulky transformers. With >0.99 power factor and up to 2000 Watts, they ensure efficient current draw to prevent grid **harmonic distortion**. This allows manufacturers to meet strict EN 61000-3-2 standards while keeping equipment compact.



#### Industrial Manufacturing

Industrial equipment with **inductive loads** creates poor power factor. Integrating isolated PFC Modules improves Power Factor to >0.99 and drops down to isolated low voltage. This lowers electricity bills, **enhances reliability** with stable voltage, and maximizes the operational efficiency of the existing electrical network.

## Series PHA >

- Up to 0.99 Power Factor
- Single or three-phase input (HPHA2)
- Meets EN/IEC 610000-3-2
- Up to 2kW output power in a full brick size
- Non-isolated & Regulated 365V output
- Operating Frequency sync feature (HPHA1/HPHA2)
- Enable DC/DC delay turn on feature (HPHA1/HPHA2)
- Fixed operating frequency
- Compatible with other Pico DC-DC converters providing isolation for 3.3 to 350V outputs



## Series AC >

- 0.99 (AC1) or 0.95 (AC3) Power Factor
- Single or three phase input
- Meets EN/IEC 610000-3-2
- 300W output power in a full brick size
- Input/output isolation
- Regulated 5V to 300V output models
- Output sense feature
- Fixed operating frequency



## Series UAC >

- 0.99 Power Factor
- Wide input voltage range
- Meets EN/IEC 610000-3-2
- Up to 250W output power in a full brick size
- Input/output isolation
- Regulated 5V to 300V output models
- Fixed operating frequency
- Low 0.5" height



## Contact Us

Need a PFC solution that doesn't compromise on size or reliability? Visit our website or contact our team of engineering experts today to discuss your project requirements.

143 Sparks Avenue  
Pelham, New York 10803

Phone: +1 (914) 738-1400  
Email: [info@picoelectronics.com](mailto:info@picoelectronics.com)



Certified to  
AS9100D  
ISO 9001:2015

