Features & Benefits

- Single-Phase Power Factor Correction Module
- Input Frequency Range: 47-63 Hz
- Wide Input Voltage Range: 90-265 V_{RMS}
- Power Factor of 0.99 at Full Load
- Less Than 10% THD of AC Input Current
- Up To 3420 W Output Power
- 97% Efficiency at Full Load
- Internal Input Emi Filter
- Active Inrush Current Limiting
- RS-485 Communication
- Input Under/Over Voltage Protection
- Input Over Current Protection
- Short-Circuit Protection
- Output Over Voltage Protection
- Baseplate Cooled
- Compatible With KOLT DC-DC Converters

Compliance

Module is designed to meet:

- MIL-STD-461G
- MIL-STD-810G

Typical Applications

- Military/Defense Power Supplies
- Armored Vehicles
- Land Platforms
- Communications and Radar Systems

Product Ratings	
V_{IN}	90–265 V_{RMS} (Single-Phase)
V_{IN_NOM}	220 V_{RMS}
V_{OUT}	380 V_{DC}
I_{OUT}	9 A
P_{OUT}	3420 W

Product Description

KMPF03 is an AC/DC power factor correction module that operates from a universal single-phase AC input and generates constant 380 V_{DC} output. Module draws a nearly sinusoidal current with less than 10% THD and close to unity power factor. Converter is fully protected against all external faults and disturbances. The innovative baseplate cooling technology engineered by KOLT allows adaptation of different cooling strategies including liquid baseplate cooling. The natural and forced air cooling strategies can also be implemented via mounting on an external heatsink with peace of mind.

The KMPF03 is engineered to perform reliably under extreme environmental conditions. It comes with advanced protection features against external faults and disturbances, meeting major military standards. Thanks to KOLT's innovative engineering, the converter has a compact design that provides high power density and performance. The module can be easily configured at the factory to fit specific electrical and mechanical requirements of the application.

Size: 200 × 130 × 35.8 mm