Features & Benefits

- True 3-Phase Power Factor Correction
- Operation Without "Neutral Wire"
- Wide Input Voltage Range: 360–528 V_{LL_RMS}
- Input Frequency Range: 57-63 Hz
- Internal Input Emi Filter
- Up To 3420 W Output Power
- Virtually No Inrush Current
- Less Than 5% THD of Ac Input Current
- Power Factor of 0.99 at Full Load
- 95% Efficiency at Full Load
- Baseplate Cooled
- RS-485 Communication
- Input Under/Over Protection
- Over Temperature Protection
- Input Over Current Protection
- Output Over Voltage Protection
- Short Circuit Protection
- Compatible With KOLT DC-DC Converters

Compliance

Module is designed to meet:

- MIL-STD-1399B
- MIL-STD-461G
- MIL-STD-810G

Typical Applications

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

Product Ratings	
V_{IN}	360–528 V_{LL_RMS} (Three-Phase)
V_{IN_NOM}	440 V_{LL_RMS}
V_{OUT}	380 V_{DC}
I_{OUT}	9 A
P_{OUT}	3420 W

Product Description

KMPF02 is a low profile and compact single output non-isolated PFC Module with 3-phase 3-wire, 57-63 Hz, delta input. Module can operate over a wide input voltage range (360–528 V_{LL_RMS}) and generates constant 380 V_{DC} output. KMPF02 draws a nearly sinusoidal current with less than 5% THD and close to unity power factor. It has superior protection features backed by analog comparators that guarantees hassle free operation.

Since the module is cooled via baseplate, it can be used with different cooling applications, including liquid baseplate cooling. Natural cooling and forced air cooling also can be used via mounting on a heatsink.

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.

Size: 220 × 130 × 35.8 mm