

Product Overview

FPAM50LH60: PFC Intelligent Power Module, 600V, 50A

For complete documentation, see the data sheet.

The FPAM50LH60 is a PFC SPM[®] 2 module providing a fully-featured, high-performance Interleaved PFC (Power Factor Correction) input power stage for consumer, medical, and industrial applications. These modules integrate optimized gate drive of the built-in IGBTs to minimize EMI and losses, while also providing multiple on-module protection features including under-voltage lockout, over-current shutdown, thermal monitoring, and fault reporting. These modules also feature a fullwave rectifier and high-performance output diodes for additional space savings and mounting convenience.

Features

- UL Certified No.E209024 (UL1557)
- 600 V - 50 A 2-Phase Interleaved PFC with Integral Gate Driver and Protection
- Very Low Thermal Resistance Using Al₂O₃ DBC Substrate
- Full-Wave Bridge Rectifier and High-Performance Output Diode
- Optimized for 20kHz Switching Frequency
- Built-in NTC Thermistor for Temperature Monitoring
- Isolation Rating: 2500 Vrms/min

Applications

- Motion Control - Home Appliance/Industrial Motor

Part Electrical Specifications

Product	Compliance	Status	Family	Rated Voltage Min (V)	I _o @ 25 °C Min (A)	V _{CE(sat)} @ 25 °C Typ (V)	R _{DS(on)} (Ω)	Emitter Configuration	Shutdown Pin	Package Type
FPAM50LH60	Pb-free	Active	Interleaved Boost PFC SPM [®] Series	600	50	2.2	-	-	No	DIP-032

For more information please contact your local sales support at www.onsemi.com.

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