

HiperPFS-4 Power Factor Correction ICs From Power Integrations Enable 98% Efficient PFC Designs Up to 550 W

3/28/2017

New PFC IC features high PF at light load, low standby power consumption and supports 305 VAC input

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced its **HiperPFSTM-4** family of power factor correction (PFC) ICs. The new device family serves applications targeting excellent efficiency and power factor performance at both full load and light load conditions. HiperPFS-4 devices incorporate a 600 V MOSFET suitable for 305 VAC input and a high efficiency, variable frequency, CCM PFC controller in a single, compact, electrically isolated, heatsinkable package. The IC family delivers high power factor, low THD and uniformly high efficiency across a wide output load range, allowing OEMs to meet the demanding 80 PLUS® Platinum and Titanium power supply standards.

This Smart News Release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20170328005058/en/>

HiperPFS-4 Power Factor Correction ICs from Power Integrations Enable 98% Efficient PFC Designs Up to 550 W (Photo: Business Wire)

HiperPFS-4 ICs achieve a high power factor of above 0.95 and low THD even at 20% of rated

load. The devices also meet the stringent surge requirements of major computer and entertainment equipment providers, such as the 1 second 410 VAC input test, which ensures field reliability and robustness against voltage swells and surges.

The new **HiperPFS-4** ICs suit enclosed designs up to 300 W, open frame power supplies of up to 400 W and highline applications up to 550 W. Protection features include UVLO, UV, OV, OTP, brown-in/out, cycle-by-cycle current limit

and power limit. HiperPFS-4 ICs consume less than 60 mW at 230 VAC while regulating output at no-load and less than 20 mW in sleep mode.

Comments Edward Ong, product marketing manager at Power Integrations: "The HiperPFS-4 product family offers very high efficiency and power factor plus low THD across a wide load range. The benefits afforded by the unique frequency-sliding control technology enable HiperPFS-4 designs to deliver very high efficiency down to very light load – important when targeting EU CoC requirements that include a 10% load efficiency measurement. The 600 V integrated power MOSFET and sophisticated protection features make the IC family ideal for use in regions where input voltage fluctuations can be severe. HiperPFS-4 devices provide safe PFC operation with a good margin at 305 VAC input for data centers and commercial LED lighting. Other applications include refrigerators (which increasingly contain high PFC specification requirements), cordless tool chargers and eBike battery chargers."

Available for high and low line applications, HiperPFS-4 ICs are available in thermally-efficient eeSIP packaging, which simplifies heatsink mounting. Devices cost \$1.46 in 10,000-piece quantities. Please visit www.power.com/products/hiperpfs-4/.

About Power Integrations

Power Integrations, Inc. is a leading innovator in semiconductor technologies for high-voltage power conversion. The company's products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in applications ranging from milliwatts to megawatts. For more information please visit www.power.com.

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Source: Power Integrations, Inc.

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