

SLLIMM nano SMD

IGBT- and MOSFET-based Surface-mounted IPMs



Surface-mounted intelligent power modules save space and improve energy efficiency in hard-switching circuits for low-power motor drives

The SLLIMM nano SMD series of intelligent power modules (IPM) address space-saving requirements with a surface mount package that also facilitates automated assembly processes.

Based on IGBT (600 V) or MOSFET (500 V) technologies and designed for low-power motor drives, this SMD IPM family enhances the efficiency of hard-switching circuits up to 20 kHz in a wide range of home appliances and motor control applications.



KEY FEATURES & BENEFITS

- Surface mounting technology package (MSL 3)
- 600 V IGBT based, 3 and 4 A
- 500 V MOSFET based, 1.5 and 3.2 Ω
- Optimized voltage drop in conduction
- Interlocking function
- NTC for temperature control
- Easy to drive by a low-voltage microcontroller
- PCB space reduction

KEY APPLICATIONS

- Fans
- Dishwashers
- Drain and recirculation pumps
- Roller shutters
- Low-power motor drives

Compact dual- inline SMD package satisfies space saving requirements and facilitates automated assembly processes.

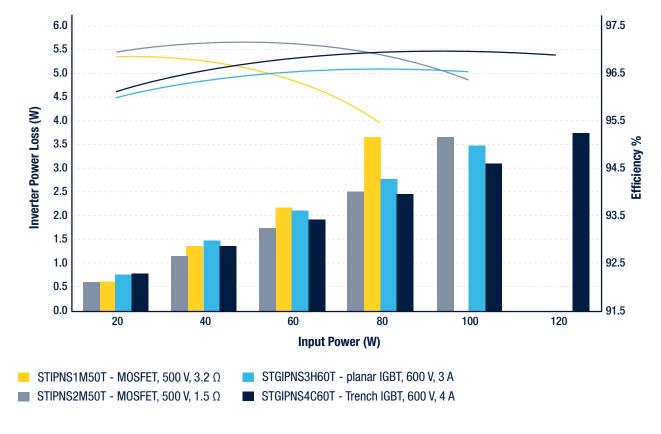
Offering improved creepage (2.7 mm) and clearance (2.0 mm) for higher safety isolation, the compact dual- inline SMD package is ideal for application boards where reflow soldering processes are mandatory. These devices are optimized for thermal performance and represent compact solutions for in built-in motors and other low-power applications where space is limited.



Enhanced performance with new 600V 4 A trench IGBT

The SLLIMM nano SMD family improves performance in heatsink-free designs: the MOSFET versions enhance low-power efficiency while the IGBT versions offer higher power capability.

The latest IGBT-based STGIPNS4C60T-H in trench gate field-stop technology further improves performance up to 120 W and delivers 11% lower power losses @ 100 W than IGBT-based IPMs in planar technology.





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