

ACEPACK 1 AND 2 SiC MOSFETs BASED



Enabling more compact and
efficient system solutions



Compact, high-performance power modules for simple, efficient and rugged power inverter designs up to 30 kW

Our ACEPACK 1 and 2 power modules leverage the innovative properties of silicon carbide (SiC) and a high-thermal performance substrate resulting in a good low on-resistance per area and switching performance that is virtually independent of temperature.

With an embedded NTC thermistor, these highly reliable power modules offer the best compromise between conduction and switching loss, maximizing the efficiency of any converter system up to 30 KW.

ST offers new SiC-based power modules in several topologies such as fourpack, half-bridge, sixpack and converter inverter brake (CIB) topologies ensuring a compact design and cost-effective system.

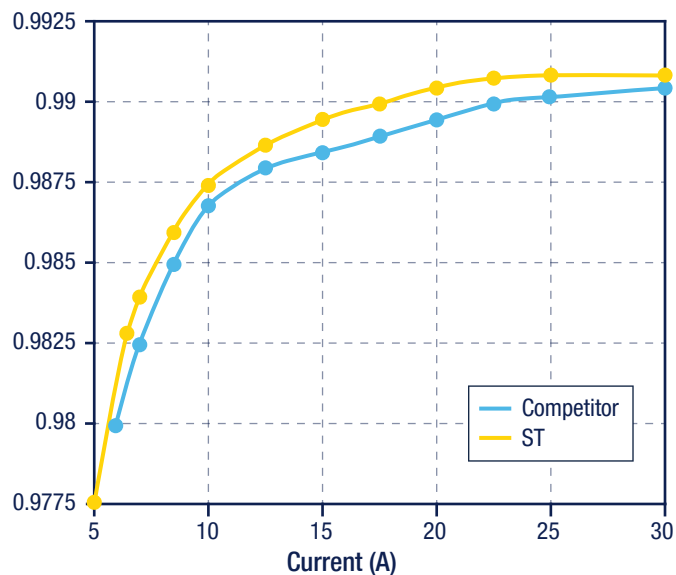
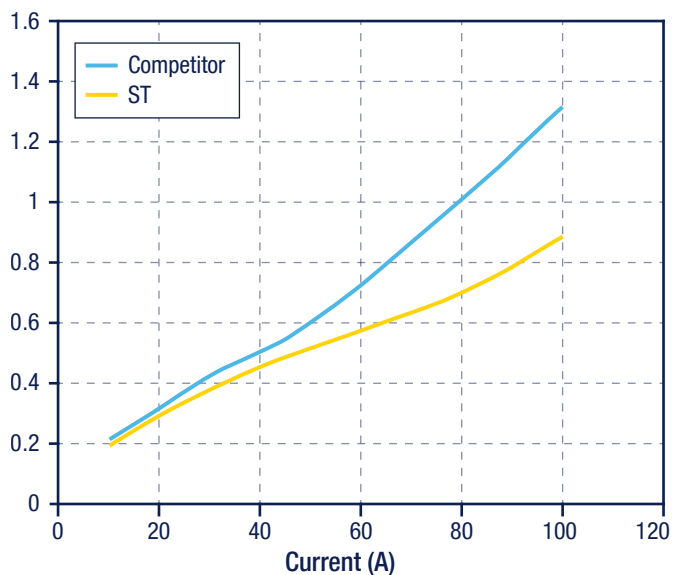
KEY FEATURES & BENEFITS

- High-power density
- High reliability and robustness
- Compact design and cost-effective system approach
- High flexibility enabling developers to implement several topologies
- Simplified, reliable, and durable mounting
- Press FIT and solderable pins

KEY APPLICATIONS

- Industrial motor drives
- Solar inverters
- Uninterruptible power supplies (UPS)
- Charging stations

The performance of ST Power Module are better in term of switching energy and efficiency.



Products offer

Package	Internal configuration	PN	Voltage (V)	ID (A) Tc=100 °C	R _{DS(on)} (mΩ)
ACEPACK 2	fourpack topology	A2F12M12W2-F1	1200	75	13
ACEPACK 2	3-level topology	A2U12M12W2-F2	1200	75	13
ACEPACK 1	fourpack topology	A1F25M12W2-F1	1200	50	23



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