

# ACEPACK™:

## Adaptable, Compact, and Easier Packages Power Modules



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

ST offers new ACEPACK 1 and ACEPACK 2 Power Modules with Sixpack and Converter Inverter Brake (CIB) topologies. 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 20 kHz in hard-switching circuitries for an application range from 3 to 30 kW. Offering PressFIT and additional solder pin options for flexible and stable mounting, these robust power modules, which are part of ST's M series Trench Gate Field-Stop IGBTs, ensure a compact design and cost-effective system.

#### KEY FEATURES

- 15 to 75 A current rating at 25 °C
- 650 to 1200 V Breakdown voltage
- 2.5 kV isolation voltage (AC, t=60s)
- Integrated 5K NTC temperature sensor
- Soft and fast recovery diode
- PressFIT and solder contact pin options
- Reliable and easy mounting system
- Low stray inductance module design

#### KEY BENEFITS

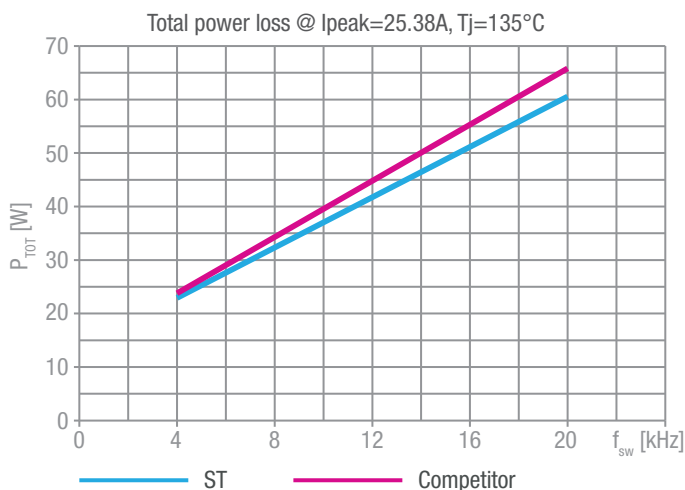
- High power density
- High reliability and quality
- 175 °C maximum junction temperature for increased robustness

#### KEY APPLICATIONS

- Industrial motor drives
- 3-phase inverters for motor drivers up to 30 kW
- Uninterruptible power supplies (UPS)
- Hybrid and electric vehicles (HEV and EV)



The flexibility and characteristics of ACEPACK packages bring additional power and design features to ensure the best possible solution for your applications.



## PRODUCTS OFFER

Package	Internal configuration	PN	Voltage (V)	$I_c$ (A) $T_c=100^{\circ}C$	Power switch	Min. isolation voltage (V)	Max. junction temperature ( $^{\circ}C$ )
ACEPACK 1	SIXPACK	A1P25S12M3 (-F)	1200	25	IGBT	2500	175
		A1P35S12M3 (-F)	1200	35			
		A1P50S65M2 (-F)	650	50			
CIB	A1C15S12M3 (-F)	1200	15				
ACEPACK 2	SIXPACK	A2P75S12M3 (-F)	1200	75			
	CIB	A2C25S12M3 (-F)	1200	25			
		A2C35S12M3 (-F)	1200	35			
		A2C50S65M2 (-F)	650	50			

