



The DNA of tech.™

Trench IGBT Power Modules in Redesigned INT-A-PAK Package

Half-Bridge Devices Offer Choice of Low $V_{CE(ON)}$ or Low E_{off} for High-Current Inverter Stages



ADVANTAGE

The best high-current inverter stages solutions: ultra-low $V_{CE(on)}$ or ultrafast switching technologies.

KEY PRODUCT FEATURES

- ✓ Combine Trench IGBTs with Gen IV FRED Pt® anti-parallel diodes configuration.
- ✓ 650 V collector to emitter voltages.
- ✓ Continuous collector current from 100 A to 200 A.
- ✓ Low collector to emitter voltage of ≤ 1.07 V at +125 °C and rated current.
- ✓ Reduces conduction losses in output stages for TIG welding machines.
- ✓ Extremely low switching losses, with E_{off} down to 1.0 mJ at +125 °C and rated current, ideal for high frequency power applications.



MARKETS AND APPLICATIONS



CONNECTIVITY

- Telecom mobile infrastructure



MOBILITY

- Transportation



ENERGY SECTOR

- Generation and exploration
- Distribution and management
- Storage



INDUSTRIAL

- Drives and tools
- Infrastructure
- Welding

DEVICE SPECIFICATION

Part Number	I_C (A)	$V_{CE(ON)}$ (V)	E_{off} (mJ)	Speed (kHz)
		at I_C and $T_J = 125$ °C		
VS-GT100TS065S	100	1.02	6.5	DC to 1
VS-GT150TS065S	150	1.05	10.3	DC to 1
VS-GT200TS065S	200	1.07	13.7	DC to 1
VS-GT100TS065N	100	2.12	1	8 to 30
VS-GT200TS065N	200	2.13	3.86	8 to 30

RESOURCES

