

IGBT Power Modules Offer Complete Integrated Solutions for Solar Inverters and UPS



KEY BENEFITS

- Ultrafast Trench IGBTs
- High-efficiency HEXFRED® and FRED Pt® clamping diodes
- Integrated thermistors provide easy thermal management
- Complete integral solutions for:
 - 3-level NPC topologies (T-NPC)
 - 3-level inverter stages
- Offered in EMIPAK-1B and EMIPAK-2B packages featuring pressfit technology
- Modular and scalable design to fit applications with higher power levels
- Low internal inductance and switching losses
- Operating frequencies up to 20 kHz
- RoHS compliant and UL approved

APPLICATIONS

- String solar inverters and medium-power-range UPS, and inverters based on 3-level neutral point clamp (NPC) topologies

RESOURCES

- Datasheets: see next page for list of datasheets featured in this product sheet
- For technical questions, contact Modules@vishay.com
- Material categorization: For definitions of compliance, please see <http://www.vishay.com/doc?99912>

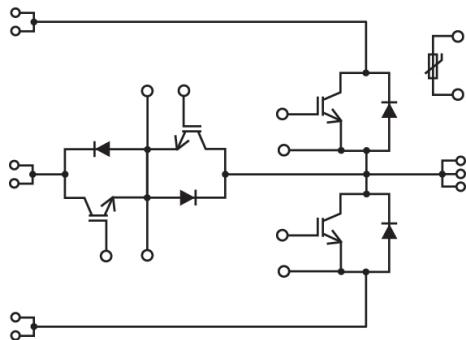
A **WORLD OF**
SOLUTIONS

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The IGBT power modules are highly flexible, cost effective, and will help reduce time to market and improve overall system performance.

Part Number	VS-ENQ030L120S	VS-ETF075Y60U	VS-ETF150Y65U
V_{CES} (V)	1200 / 600	600 / 600	650 / 650
I_C (A)	30	75	150
Package	EMIPAK-1B	EMIPAK-2B	EMIPAK-2B
Circuit	3-level NPC topologies (T-NPC)	3-level half bridge inverter stage	3-level half bridge inverter stage
Datasheet	http://www.vishay.com/ ppg?94684	http://www.vishay.com/ ppg?94685	http://www.vishay.com/ ppg?95706

3-level Neutral Point Clamp (T-NPC)



3-level Half Bridge Inverter Stage

