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

KEY BENEFITS
• Ultrafast Trench IGBTs
• High efficiency FRED Pt® clamping diodes
• Integrated thermistors provide easy thermal management
• Complete integral solutions for 3-level inverter stages
• EMIPAK 2B package features PressFit technology
• Modular and scalable design to fit applications with higher power levels
• Low internal inductance and switching losses
• Operating frequencies up to 30 kHz
• UL-approved file E78996

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 products
• For technical questions contact: modules@vishay.com
• Material categorization: for definitions of compliance please see www.vishay.com/doc?99912
The IGBT power modules are highly flexible, cost effective, and will help reduce time to market and improve overall system performance.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>$V_{CES}$ (V)</th>
<th>$I_{C}$ (A)</th>
<th>$V_{CE(on)}$ (V)</th>
<th>SPEED</th>
<th>PACKAGE</th>
<th>CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS-ETF075Y60U</td>
<td>600</td>
<td>75</td>
<td>1.7 (1)</td>
<td>8 kHz to 30 kHz</td>
<td>EMIPAK 2B</td>
<td>3-level half bridge inverter stage</td>
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<tr>
<td>Q1 - Q4 IGBT stage</td>
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</tr>
<tr>
<td>VS-ETF075Y60U</td>
<td>600</td>
<td>75</td>
<td>1.56 (1)</td>
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<tr>
<td>Q2 - Q3 IGBT stage</td>
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</tbody>
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Note
(1) Typ. $I_{C} = 75$ A

3-Level Half Bridge Inverter Stage