

## IGBT Module, 650V IGBT Gen X3™

**Manufacturer:** [Littelfuse Inc](#)

**Package/Case:** MODULE

**Product Type:** Thyristors

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active



Images are for reference only

[Inquiry](#)

### General Description

Manufactured through the state-of-the-art GenX3™ IGBT process and an extreme-light PunchThrough (XPT™) design platform, these devices feature high-current handling capabilities, high-speed switching abilities, low total energy losses, and low current fall times. They have a positive collector-to-emitter voltage temperature coefficient, making it possible for designers to use multiple devices in parallel to meet high current requirements. Their low gate charges also help reduce gate drive requirements and switching losses. In addition to being avalanche rated, these devices have square Reverse Bias Safe Operating Areas (RBSOA) up to the breakdown voltage— a necessary ruggedness in snubberless hard-switching applications.

### Key Features

Optimized for 20kHz-60kHz switching

Square RBSOA

Short circuit capability

Avalanche rated

Ultra-fast anti-parallel diodes

International standard packages

Advantages:

Hard-switching capability

High power density

Low gate drive requirements

### Application

Battery chargers

E-Bikes

Lamp ballasts

Power inverters

Power Factor Correction (PFC) circuits

Switched-mode power supplies

Uninterruptible Power Supplies (UPS)

Welding machines

### Recommended For You

**IXGH48N60C3D1**

Littelfuse Inc

TO-247

**IXYX100N120C3**

Littelfuse Inc

PLUS247

**IXGH30N60B2D1**

Littelfuse Inc

TO-247

**IXYN30N170CV1**

Littelfuse Inc

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**IXBH16N170**

Littelfuse Inc

TO-247

**IXGH60N60C2**

Littelfuse Inc

TO-247

**IXGH48N60A3**

Littelfuse Inc

TO-247

**IXGN320N60A3**

Littelfuse Inc

MODULE

**IXGH60N60C3**

Littelfuse Inc

TO-247

**IXGP20N120A3**

Littelfuse Inc

TO-220

**IXYR50N120C3D1**

Littelfuse Inc

ISOPLUS247

**IXYH50N65C3D1**

Littelfuse Inc

TO-247

**IXGP8N100**

Littelfuse Inc

TO-220

**IXTQ460P2**

Littelfuse Inc

TO-3P

**IXGR48N60C3D1**

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