



[IGBT Module \(/en/product/IGBT-module.html\)](/en/product/IGBT-module.html)

Description

The IGBT module introduced in Xiner adopts the trench field stop technology (Trench Field Stop), the trench cell structure greatly increases the power density of the device, and the electric field is used at the collector end of the chip through the ultra thin wafer process (Ultra Thin Wafer Process). Field Stop structure, which significantly reduces the device's saturation turn-on voltage drop ($V_{ce(sat)}$) and turn-off loss (E_{off}). Compared to the previous generation, device power loss (sum of conduction loss and switching loss) Reduced by 33%, with independent voltage and fast recovery diode (FRD), suitable for all kinds of switching applications. The module is packaged in a standard package and has stable electrical parameters and robust reliability in harsh environments.



Features and Benefits:

- Low saturation conduction voltage drop ($V_{ce(sat)}$);
- Low switching loss (E_{ts});
- High breakdown voltage (BV_{ces});
- High short circuit current tolerance (I_{tsc});
- Electrical parameter repeatability and consistency;
- High reliability.

Parameters

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Product Name	Voltage Class	IC(nom)	Housing	Dimensions	Configuration
		IF(nom)			
XNG20PI12TL1S3	600V	20	L1	34×48×15.5mm	PIM Three Phase Input Rectifier
XNG30PI12TL1S3	600V	30	L1	34×48×15.5mm	PIM Three Phase Input Rectifier
XNG15PI24TL1S3	1200V	15A	L1	34×48×12mm	PIM Three Phase Input Rectifier
XNG25PI24TL2S3	1200V	25A	L2	57×48×12mm	PIM Three Phase Input Rectifier
XNG40PI24TL2S3	1200V	40A	L2	57×48×12mm	PIM Three Phase Input Rectifier
XNG25PI24TC3AS3	1200V	25A	C3	107×45×17mm	PIM Three Phase Input Rectifier
XNG25PI24TC3S3	1200V	25A	C3	107×45×17mm	PIM Three Phase Input Rectifier
XNG40PI24TC3AS3	1200V	40A	C3	107×45×17mm	PIM Three Phase Input Rectifier
XNG40PI24TC3S3	1200V	40A	C3	107×45×17mm	PIM Three Phase Input Rectifier
XNG50D24TC3S6	1200V	50A	C3	107×45×17mm	PIM Three Phase Input
XNG50PI24TC4AS5	1200V	50A	C4	122×62×17mm	PIM Three Phase Input Rectifier
XNG50PI24TC4S5	1200V	50A	C4	122×62×17mm	PIM Three Phase Input Rectifier
XNG75PI24TC4AS5	1200V	75A	C4	122×62×17mm	PIM Three Phase Input Rectifier
XNG75PI24TC4S5	1200V	75A	C4	122×62×17mm	PIM Three Phase Input Rectifier

XNG100PI24TC4AS5	1200V	100A	C4	122×62×17mm	PIM Three Phase Input
XNG100PI24TC4S5	1200V	100A	C4	122×62×17mm	PIM Three Phase Input
XNG150D24KC4A5	1200V	150A	C4	122×62×17mm	SixPack Three Phase Bridge
XNG200D24KC4A5	1200V	200A	C4	122×62×17mm	SixPack Three Phase Bridge
XNG200D13TC4S3	650V	200A	C4	122×62×17mm	SixPack Three Phase Bridge
XNG50B24TC1S5	1200V	50A	C1	94×34×30mm	Half Bridge
XNG75B24KC1S	1200V	75A	C1	94×34×30mm	Half Bridge
XNG75B24UC1S	1200V	75A	C1	94×34×30mm	Half Bridge
XNG100B24KC1S	1200V	100A	C1	94×34×30mm	Half Bridge
XNG100B24UC1S	1200V	100A	C1	94×34×30mm	Half Bridge
XNG150B24KC1S	1200V	150A	C1	94×34×30mm	Half Bridge
XNG150B24UC1S	1200V	150A	C1	94×34×30mm	Half Bridge
XNG150B24KC2S	1200V	150A	C2	106×62×30mm	Half Bridge
XNG150B24UC2S	1200V	150A	C2	106×62×30mm	Half Bridge
XNG200B24KC2S	1200V	200A	C2	106×62×30mm	Half Bridge
XNG200B24UC2S	1200V	200A	C2	106×62×30mm	Half Bridge
XNG300B24KC2S	1200V	300A	C2	106×62×30mm	Half Bridge
XNG300B24UC2S	1200V	300A	C2	106×62×30mm	Half Bridge
XNG450B24KC2S	1200V	450A	C2	106×62×30mm	Half Bridge
XNG450B24UC2S	1200V	450A	C2	106×62×30mm	Half Bridge
XNG300B24KC5S	1200V	300A	C5	152×62×17mm	Half Bridge
XNG300B24LC5E	1200V	300A	C5	152×62×17mm	Half Bridge
XNG600B24KC5A5	1200V	600A	C5	152×62×17mm	Half Bridge
XNG600B24LC5E	1200V	600A	C5	152×62×17mm	Half Bridge
XNG300B34KC5E	1700V	300A	C5	152×62×17mm	Half Bridge
XNG450B34KC5A5	1700V	450A	C5	152×62×17mm	Half Bridge
XNG600B34LC5E	1700V	600A	C5	152×62×17mm	Half Bridge
XNG300D13TH4A3	650V	300A	H4	140×112×17mm	SixPack Three Phase Bridge
XNG400D13TH4A3	650V	400A	H4	140×112×17mm	SixPack Three Phase Bridge
XNG400D13TH6A3	650V	400A	H6	140×72×17mm	SixPack Three Phase Bridge
XNG660D13TH5A3	650V	660A	H5	152×92×15.7mm	SixPack Three Phase Bridge