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Power Components



Taixin Electronics Co. Ltd.



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Yantai TaixinElectronic is a high-tech enterprise founded by a high-power semiconductor technology team led by national PhD professional team from North China Electric Power University.

Taixin's main business is the R&D, production and reliability research and testing of high-power semiconductor IGBT modules. With more than 100 million RMB investment, built a complete R&D platform, large-scale production line and reliability testing center.

At present, more than a dozen series of power modules have been mass-produced, with an annual production of 2 million high-power semiconductor IGBT modules.

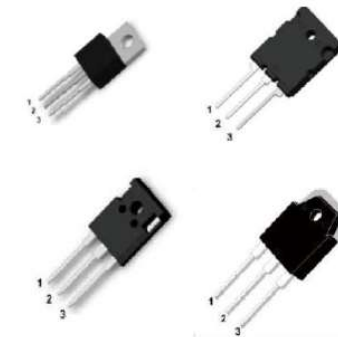
Factory is located at No. 39 Xiamen Street, Yantai Development Zone, with a total factory area of about 30 acres. The R&D and production center of phase-1 of the new plant has been put into operation, 8,000m²with packaging production line 3,000 m² phase-2 of the new plant 22,000m²is planned to start construction in June 2022





Single Trench-IGBT w. freewheeling Diode

Type	VCES (V)	IC@100°C (A)	VC(sat) @25C (V)	VF @25°C	Package	Circuit
TXG15N070P	650	15	1.65	1.80	TO-220	
TXG40N070W	650	40	1.85	1.50	TO-247	
TXG60N070W	650	60	1.85	1.50	TO-247	
TXG80N070W	650	80	1.70	1.50	TO-247	
TXG80N070L	650	80	1.70	1.50	TO-264	
TXG10N120P	1200	10	2.40	1.10	TO-220	
TXG15N120T	1200	15	2.10	1.20	TO-3P	
TXG15N120WB	1200	15	1.98	2.20	TO-247	
TXG25N120T	1200	25	2.25	1.30	TO-3P	
TXG25N120W	1200	25	2.05	2.30	TO-247	
TXG25N120WB	1200	25	1.90	2.25	TO-247	
TXG40N120W	1200	40	2.10	2.20	TO-247	
TXG40N120WB	1200	40	1.65	2.10	TO-247	
TXG50N120W	1200	50	2.10	2.20	TO-247	
TXG80N120L	1200	80	1.85	2.10	TO-264	



Target Application:

- UPS
- General Inverters / Motor Drive
- Inductive Heating
- Welding



650/1200V Single Switch IGBT

Type	VCES (V)	IC@ 100° (A)	VCE(SAT) @25°C	VF@25°C (V)	Package	Circuit
TXFZ100R070O1CM	650	100	1.50	-	T1	
TXFZ150R070D1CM	650	150	1.50	-		
TXFZ200R070O1 CM	650	200	1.50	-		
TXFZ50R120O1CM	1200	50	1.65	-		
TXFZ50R120O1CME	1200	50	2.10	-		
TXFZ75R120O1CM	1200	75	1.65	-		
TXFZ75R120O1CME	1200	75	1.95	-		
TXFZ100R120O1CM	1200	100	1.65	-		
TXFZ100R120O1 CME	1200	100	2.00	-		
TXFZ800R070T4CH	650	800	1.65	1.85	T4	
TXFZ400R120T4CME	1200	400	2.05	2.00		
TXFZ600R120T4CH	1200	600	1.65	2.10		



D1



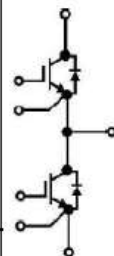
T4

Target Application:

- UPS
- General Inverters / Motor Drive
- Inductive Heating
- Welding



650/1200V Half-Bridge IGBT Modules

Type	VCES (V)	IC@100C (A)	VCE @25°C (V)	Vf@25° (V)	Package	Circuit
TXFF100R070T1CM	650	100	1.50	1.70	T1	
TXFF150R070T1CH	650	150	1.50	1.90		
TXFF200R070T1CM	650	200	1.50	1.70		
TXFF50R120T1CH	1200	50	1.65	2.10		
TXFF50R120T1CHE	1200	50	2.10	2.20		
TXFF75R120T1CH	1200	75	1.65	2.10		
TXFF75R120T1CHE	1200	75	1.95	2.10		
TXFF100R120T1CH	1200	100	1.65	2.10		
TXFF100R120T1CHE	1200	100	2.00	2.25		
TXFF100R120T1CM	1200	100	1.65	2.00		
TXFF100R120T1CME	1200	100	2.00	2.00		
TXFF150R120T1CH	1200	150	1.65	2.10		
TXFF150R120T1CHE	1200	150	2.20	2.10		
TXFF150R120T1CME	1200	150	2.20	2.20		
TXFF200R070T2CM	650	200	1.50	1.70		
TXFF300R070T2CM	650	300	1.50	1.70		
TXFF400R070T2CM	650	400	1.50	1.70		
TXFF450R070T2CH	650	450	1.55	1.76		
TXFF100R120T2CME	1200	100	2.10	1.95		
TXFF150R120T2CH	1200	150	1.65	2.10		
TXFF150R120T2CHE	1200	150	1.95	2.10		



T1



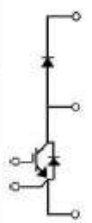
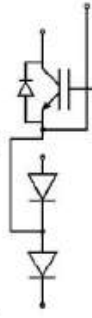
T2

Target Application:

- SMPS
- Inductive Heating
- Welding
- Motor Control / Drives



1200V Buck- & Boost Chopper IGBT Modules

Type	V _{CE} S (V)	I _C @100°C (A)	V _{CE} (sat) @25°C(V)	V _F @25°C (V)	Package	Circuitry
TXFU50R120T1CHE	1200	50	2.10	2.20	T1	
TXFU75R120T1CHE	1200	75	1.95	2.10		
TXFU100R120T1CHE	1200	100	2.00	2.25		
TXFU150R120T2CHE	1200	150	1.95	2.10		
TXFU200R120T2CM	1200	200	1.65	2.00	T2	
TXFU200R 120T2CME	1200	200	2.00	2.00		
TXFU300R120T2CHE	1200	300	2.20	2.10		
TXFU400R 120T2CM	1200	400	1.65	2.00		
TXFU450R120T2CHE	1200	450	2.00	2.05	M	
TXFU600R070MCM	650	600	1.50	1.70		
TXFU300R120MCME	1200	300	2.00	2.00		
TXFU450R120MCM	1200	450	1.65	1.70		
TXFU600R120MCH	1200	600	1.65	1.85	T2	
TXFU600R120MCM	1200	600	1.65	1.70		
TXFD150R120T2CHE	1200	150	1.95	2.10		
TXFD200R120T2CM	1200	200	1.65	2.00		
TXFD200R120T2CME	1200	200	2.00	2.00		
TXFD300R120T2CHE	1200	300	2.20	2.10		
TXFD450R120T2CH	1200	450	1.70	2.05	T2	
TXFD450R120T2CHE	1200	450	2.10	2.05		

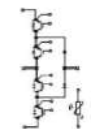
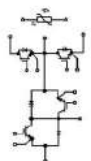



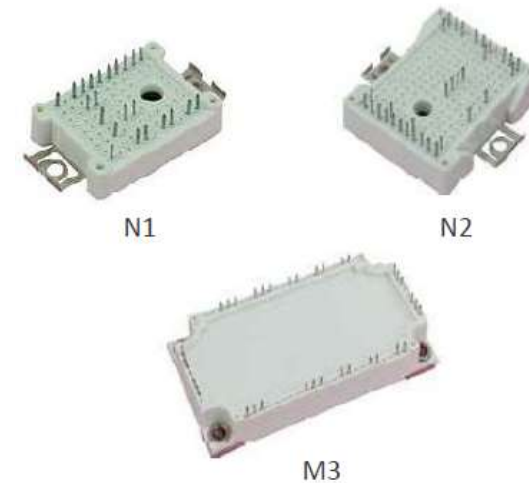
Target Application:

- SMPS
- UPS
- Switched Reluctance motor drive
- Air conditioning Systems
- Welding Equipment, Pumps, Fans
- Inductive Heating, Cookers
- AC & DC Servo Drive



3-Level Inverter (NPC/TNPC Topology) / 3~Converter w. H-Bridge w. NTC

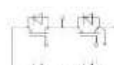
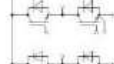

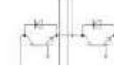
Type	VCES (V)	IC@100°C (A)	VCE(sat) @25C(V)	VF@25°C (V)	Package	Circuit
TXF3L50R070N1CM	650	50	1.50	1.70	N1	
TXF3L75R070N2CM	650	75	1.50	1.70	N2	
TXF3L100R070N2CM	650	100	1.50	1.70		
TXF3L150R070N2CM	650	150	1.50	1.70		
TXF3L25R120N1CME	1200	25	1.85	1.95	N1	
TXF3L75R120N2CM	1200	75	1.65	1.70	N2	
TXF3L100R120N2CM	1200	100	1.65	1.70		
TXF3L150R120N2CM	1200	150	1.65	1.70		
TXF3L200R120N2CM	1200	200	1.65	1.70	M3	
TXFES75R170M3CB	1700	75	2.30	2.10		
TXFE100R170M3CB	1700	75	2.30	2.20		

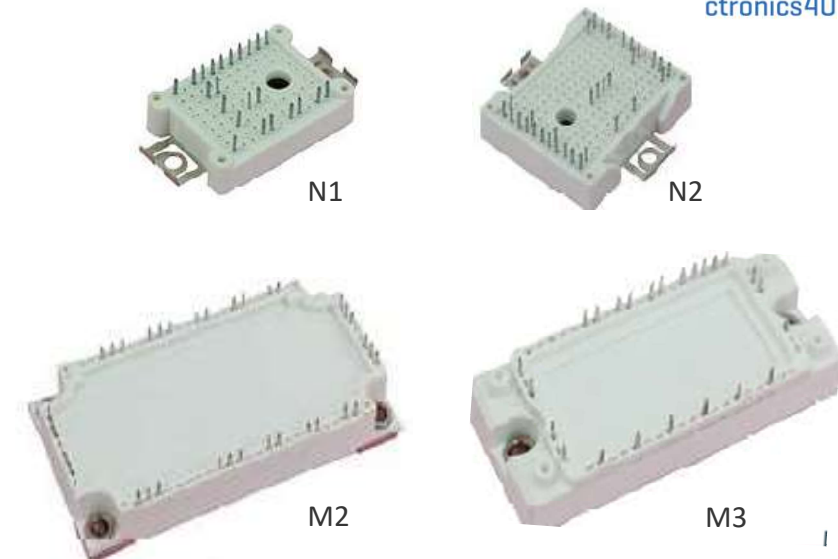


- Target Application:
- UPS
 - Solar Inverters
 - General Inverters
 - General High Power Application



IGBT Sixpack Modules w. NTC

Type	VCES(V)	IC@100C	VCE(sat)(A)	VF@25°C (V)	Package	Circuit
TXFS25R120N1CME	1200	25	1.85	2.00	N1	
TXFS35R120N1CME	1200	35	1.85	2.10		
TXFS50R120N2CM	1200	50	1.65	1.70	N2	
TXFS75R120N2CM	1200	75	1.65	1.70		
TXFS100R070M2CA	650	100	1.50	1.70	M2	
TXFS25R120M2CAE	1200	25	1.85	1.95		
TXFS35R120M2CAE	1200	35	1.85	2.05		
TXFS50R120M2CA	1200	50	1.65	1.70		
TXFS75R120M2CA	1200	75	1.65	1.70	M3 M2	
TXFS100R070M3CA	650	100	1.50	1.70		
TXFS150R070M3CA	650	150	1.50	1.70		
TXFS200R070M3CA	650	200	1.50	1.70		
TXFS75R120M3CA	1200	75	1.65	1.70		
TXFS100R120M3CA	1200	100	1.65	1.70		
TXFS150R120M3CA	1200	150	1.65	1.70		
TXFS75R170M3CAI	1700	75	2.30	2.10		
TXFS100R170M3CAI	1700	100	2.30	2.20		
TXFS100R070M2CB	650	100	1.50	1.70		
TXFS50R120M2CB	1200	50	1.65	1.70		
TXFS75R120M2CB	1200	75	1.65	1.70		
TXFS100R120M2CB	1200	100	1.65	1.70		












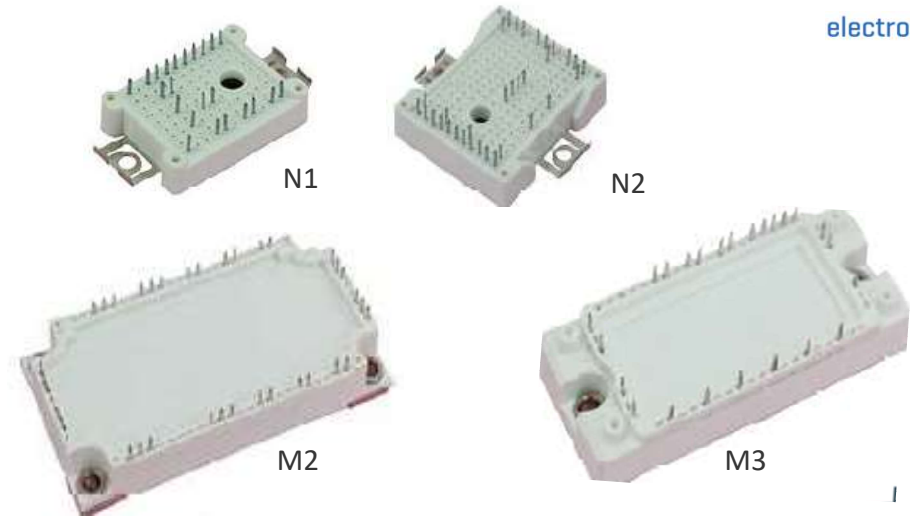
Target Application:

- AC Motor Control
- UPS
- Servo & Robot Drives
- Power Supplies
- Medical Equipment
- Pumps, Fans
- Inductive Heating
- Switch mode & resonant mode power supplies



IGBT Sixpack Modules + 3~ Rectifier Bridge + NTC

Type	VCES(V)	IC@100°C (A)	VCE(SAT) (V)	VF@25°C (V)	Package	Circuit
TXFP15R120N1CM	1200	15	1.80	2.00	N1	
TXFP15R120N1CME	1200	15	1.85	2.00		
TXFP15R120N2CME	1200	15	1.85	2.00	N2	
TXFP25R120N2CM	1200	25	1.80	1.95		
TXFP25R120N2CME	1200	25	1.85	1.95		
TXFP35R120N2CM	1200	35	1.80	2.10	M2	
TXFP35R120N2CME	1200	35	1.85	2.10		
TXFP15R120M2CAE	1200	15	1.80	2.00	M2	
TXFP25R120M2CAE	1200	25	1.85	1.95		
TXFP40R120M2CAE	1200	40	1.75	2.05		
TXFP100R070M3CA	650	100	1.50	1.70	M3	
TXFP40R120M3CAE	1200	40	1.70	2.05		
TXFP50R120M3CA	1200	50	1.65	1.70		
TXFP75R120M3CA	1200	75	1.65	1.70	M2	
TXFP25R120M2CBE	1200	25	1.85	1.95		
TXFP35R120M2CBE	1200	35	1.70	2.00		
TXFP50R120M2CB	1200	50	2.10	1.95	M2	
TXFP75R120M2CB	1200	75	1.65	1.70		
TXFP50R120M3CB	1200	50	1.65	1.70	M3	
TXFP75R120M3CB	1200	75	1.65	1.70		
TXFP100R120M3CB	1200	100	1.65	1.70		
TXFP150R120M3CB	1200	150	1.65	1.70	M3	



Target Application:

- AC Motor Control
- UPS
- Servo & Robot Drives
- Power Supplies
- Medical Equipment
- Pumps, Fans
- Inductive Heating
- Switch mode & resonant mode power supplies



Si-Diode Modules Dual - phaseleg & common anode configuration -

Type	VRRM (V)	IF(A)		VF(V)	Package	Circuit
TXDM200R040F1CME	400	2x	100	1.25	F1	
TXDM200R060F1CME	600	2x	100	1.30		
TXDM300R040F2CME	400	2x	150	1.25	F2	
TXDM400R040F2CME	400	2x200		1.25		
TXDM300R060F2CME	600	2x	150	1.30		
TXDM400R060F2CME	600	2x200		1.30		
TXDM300R060T1CME	600	2x	150	1.30	T1	
TXDM400R060T1CME	600	2x200		1.30		
TXDM200R120T1CM	1200	2x	100	1.70	T2	
TXDM600R060T2CME	600	2x300		1.30		
TXDM300R120T2CM	1200	2x	150	1.70		
TXDM400R120T2CM	1200	2x200		1.70		
TXDM400R170T2CME	1700	2x200		2.20	D1	
TXDM600R170T2CME	1700	2x300		2.10		
TXDM200R040O1CME	400	2x	100	1.25	D1	
TXDM120R060O1CME	600	2x60		1.30		
TXDM200R060O1CME	600	2x	100	1.30		
TXDM120R120O1CM	1200	2x60		1.70		
TXDM200R120O1CM	1200	2x	100	1.70		



Target Application:

- Main rectification
- 1~ and 3~ Bridge Configurations
- Input rectifier for PWM converter
- DC Power Supplies / Battery powered Equipment



SiC-Diode Modules - series, common cathode & bridge configuration -

Type	VRRM (V)	IF @ 100°C	VF @ 25°C	Package	Circuit
TXDS50R060F1CM	600	2x25	1.70	F1	
TXDS600R060F1CM	600	2x30	1.70		
TXDS80R060F1CM	600	2x40	1.55		
TXDS50R120F2CM	1200	2x25	1.55	F2	
TXDS80R120F2CM	1200	2x40	1.55		
TXDS100R120F2CM	1200	2x50	1.55		
TXDS200R120F2CM	1200	2x 100	1.55		
TXDS50R060D1CM	600	50	1.60	D1	
TXDS100R060D1CM	600	100	1.60		
TXDS40R120D1CM	1200	40	1.80		
TXDS50R120D1CM	1200	50	1.80		
TXDS80R120D1CM	1200	80	1.80		
TXDS100R120D1CM	1200	100	1.80		
TXDS50R060D1CM	600	50	1.75		
TXDS40R120D1CM	1200	40	1.75		
TXDS50R120D1CM	1200	60	1.75		



F1



F2



D1

Target Application:

- Welding Converter
- Switch mode power supplies
- UPS
- Motor control
- DC/AC or DC-DC converter
- High speed rectifier

Power Components



Cross Reference List

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Type	Voltage/Current	Taixin Part Name	Competitor Part Name
T1-FF	1200V/50A	TXFF50R12T1HS	FF50R12RT4、BSM50GB120DLC、BSM50GB120DN2
T1-FF	1200V/50A	TXFF50R12T1MT	FF50R12RT4、BSM50GB120DLC、BSM50GB120DN2
T1-FF	1200V/75A	TXFF75R12T1HS	FF75R12RT4、BSM75GB120DLC、BSM75GB120DN2
T1-FF	1200V/75A	TXFF75R12T1MT	FF75R12RT4、BSM75GB120DLC、BSM75GB120DN2
T1-FF	1200V/100A	TXFF100R12T1HS	FF100R12RT4、BSM100GB120DLCK、BSM100GB120DN2K
T1-FF	1200V/100A	TXFF100R12T1MT	FF100R12RT4、BSM100GB120DLCK、BSM100GB120DN2K
T1-FF	1200V/150A	TXFF150R12T1HS	FF150R12RT4
T1-FF	1200V/150A	TXFF150R12T1MT	FF150R12RT4
T2-FF	1200V/150A	TXFF150R12T2HS	FF150R12KE3G、FF150R12KT3G
T2-FF	1200V/150A	TXFF150R12T2MT	FF150R12KE3G、FF150R12KT3G
T2-FF	1200V/200A	TXFF200R12T2HS	FF200R12KE3、FF200R12KT3、FF200R12KE4、FF200R12KT4
T2-FF	1200V/200A	TXFF200R12T2MT	FF200R12KE3、FF200R12KT3、FF200R12KE4、FF200R12KT4
T2-FF	1200V/300A	TXFF300R12T2HS	FF300R12KE3、FF300R12KT3、FF300R12KE4、FF300R12KT4
T2-FF	1200V/300A	TXFF300R12T2MT	FF300R12KE3、FF300R12KT3、FF300R12KE4、FF300R12KT4
T2-FF	1200V/450A	TXFF450R12T2HT	FF400R12KE3、FF400R12KT3、FF450R12KE4、FF450R12KT4
T2-FF	1200V/450A	TXFF450R12T2MT	FF400R12KE3、FF400R12KT3、FF450R12KE4、FF450R12KT4
M-FF	650V/450A	TXFF450R07MME	FF450R07ME4、FF450R06ME3、FF450R07ME4_B11(similar)
M-FF	650V/600A	TXFF600R07MME	FF600R07ME4、FF600R06ME3、FF600R07ME4_B11(similar)
M-FF	650V/600A	TXFF300R12MMT	FF300R12ME3、FF300R12ME4、FF300R12ME4_B11(similar)

Type	Voltage/Current	Taixin Part Name	Competitor Part Name
M-FF	1200V/450A	TXFF450R12MMT	FF450R12ME3、FF450R12ME4、FF450R12ME4_B11(similar)
M-FF	1200V/600A	TXFF600R12MMT	FF600R12ME4、FF600R12ME4_B11(similar)
M2-FPB	1200V/25A	TXFP25R12M2HEB	FP25R12KT4、FP25R12KT4_B11(similar)
M2-FPB	1200V/50A	TXFP50R12M2MTB	FP50R12KT4、FP50R12KT4_B11(similar)
M3-FPB	1200V/75A	TXFP75R12M3MTB	FP75R12KT4、FP75R12KT4_B11(similar)
M3-FPB	1200V/100A	TXFP100R12M3MTB	FP100R12KT4、FP100R12KT4_B11(similar)
M3-FPB	1200V/150A	TXFP150R12M3MTB	FP150R12KT4、FP150R12KT4_B11(similar)
W-G	650V/40A	TXG40N06WHT	IKW30N60T、IGW30N60TIKW30N65EL5、IGW30N65L5
W-G	650V/60A	TXG60N06WHT	IKW50N60T、IGW50N60T
W-G	650V/80A	TXG80N07WHE	IKW75N60T、IGW75N60TIKW75N65EL5
L-G	650V/80A	TXG80N06LHT	None
W-G	1200V/25A	TXG25N12WHT	IKW25T120、IKW25N120T2、IGW25T120
W-G	1200V/40A	TXG40N12WHS	IKW40T120、IKW40N120T2、IGW40T120
W-G	1200V/50A	TXG50N12WHT	IKW40T120、IKW40N120T2、IGW40T120
L-G	1200V/80A	TXG80N12LHT	None
W-G	1200V/15A	TXG15N12WHT	IKW15T120、IKW15N120T2、IGW15T120
W-G	1200V/25A	TXG25N12WHE	IKW25T120、IKW25N120T2、IGW25T120
W-G	1200V/40A	TXG40N12WHT	IKW40T120、IKW40N120T2、IGW40T120