



Electric Vehicle IGBT

With all efforts to improve the environment, the automotive market are transitioning into the manufacturing of more efficient, economical and eco-friendly means of transport.

Full Electric and Hybrid power units based on IGBT technologies are today entering many new markets, WW the drive to reduce harmful emissions becomes stronger every day.

In the automotive space today, many national Governments WW have programmes in place that will drive the switch over to zero or low CO₂ emissions WW by 2040 latest for new vehicles registrations. Long operational lifetime road vehicles such as goods vehicles may require their power units to be upgraded to Full Electric or Hybrid technology at mid operational lifetime upgrades to ensure the required compliance to regulatory requirements.

Within the Zhuzhou CRRC Times Electric Co. Ltd group of companies, we are developing EV solutions that build on

our transport sector track record in advanced power electronics, machines and drives “PEMD” technology to develop IGBT modules to meet electric commercial and passenger vehicle needs.

The Electric Vehicle IGBT product line is available across our packaging types S0, S1, S2, S3 and M1 covering the range of 750V to 1200V. We have in the range IGBT modules with flat baseplate for lower cost and for higher power applications modules having pin fin geometry.

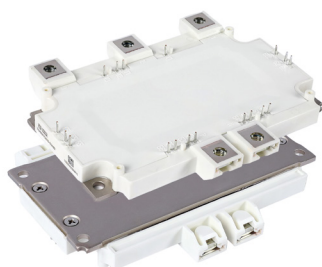
Dynex Electric Vehicle Typical applications for these modules include; electric and hybrid vehicles including cars, LGV and Electric PSV, motor drives and power charging equipment. The devices feature low inductive designs, low switching losses and high thermal cycling capability. They provide the cost efficient and reliable product solutions required by this application environment.

Our IGBT module range are designed and developed in an environment to comply fully automotive EV industry standards AEC-Q101, AQG-324 and IATF16949 to ensure our highest reliability assurance.

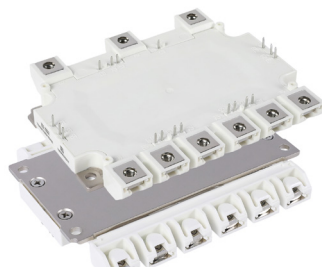
^ Electric Vehicle Parts

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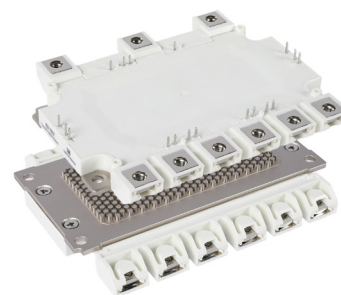
Part Number	Ic (A) ▾	V 	Vce (Sat) ▾	Esw 150°C ▾	Outline ▾	Configuration	Base Plate Type	More Info
TG450HF12M1-S3A00	450	1200	1.65	78	M1	Half Bridge	Flat -Cu	☐
TG600HF12M1-G3A00	600	1200	1.85	166	M1	Half Bridge	Flat -Cu	☐
TG400FF08S0-S3A00	400	750	1.7	30	S0	Six pack	Flat -Cu	☐
TG400FF08S2-S3A00	400	750	1.75	24	S2	Six pack	Flat -Cu	☐
TG400FF08S2-S3A01	400	750	1.75	24	S2	Six pack	Pin Fin	☐
TG600FF08S3-S3A01	600	750	1.55	23	S3	Six pack	Pin Fin	☐
TG820FF08S3-S4A01	820	750	1.25	44	S3	Six pack	Pin Fin	☐
TG820FF08S3-S4A21	820	750	1.25	44	S3 - LONG	Six pack	Pin Fin	☐



S0 Package



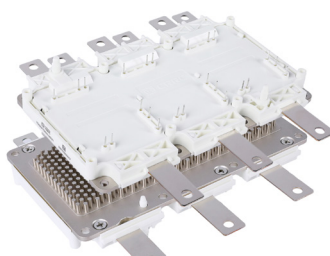
S2 Flat Base Package



S2 Pin Fin Package



S3 Package



S3 Long Package



M1 Package

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