

Automotive IGBT Range

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 worldwide, with the increasing drive to reduce harmful emissions.

Many national Governments worldwide have programmes in place to drive the automotive market into zero or low CO2 emissions by 2040 for new vehicle registrations, with the UK Government announcing plans to succeed in this mission by 2030. Long operational lifetime road vehicles such as goods vehicles, may require a full Electric or Hybrid technology upgrade to their power units at their mid operational lifetime to ensure compliance with the regulatory requirements.

The Zhuzhou CRRC Times Electric Co. Ltd group of companies are developing EV solutions that build on the transportation sector in advanced power electronics, machines and drives "PEMD" technology. The IGBT modules

support the electric commercial and passenger vehicle requirements.

Our Electric Vehicle IGBT product line is available in S0, S1, S2, S3 and M1 package types, covering the range of 750V to 1200V. In addition, the range offers options of flat baseplates for lower cost and pin fin geometry for higher power applications.

The devices feature low inductive designs, low switching losses and high thermal cycling capability. They provide a cost efficient and reliable product solution required by this application environment.

Our IGBT module range are designed and developed in an environment that fully complies with the automotive EV industry standards AQG-324 and IATF16949, to guarantee the highest reliability assurance.

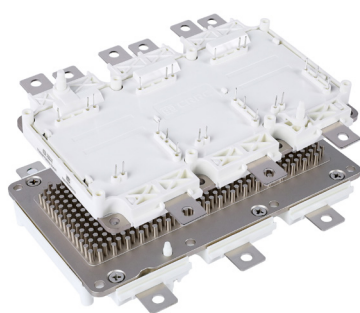
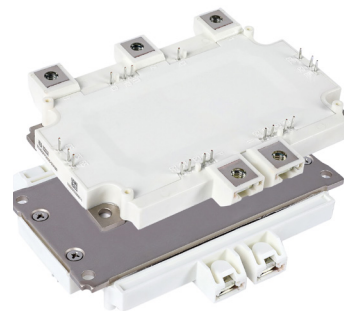
Electric and hybrid applications include:

- LGV and Electric PSV
- Motor drives
- Power charging equipment

Electric Vehicle Parts

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Part Number	Ic (A)	V	Vce (Sat)	Esw 150°C	Outline	Configuration	Baseplate Types
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
TG660FF08S3-S4A00	660	750	1.2	46	S3-Flat	Six Pack	Flat-Cu
TG820FF08S3-S4A11	820	750	1.2	46	S3	Six Pack	Pin Fin
TG820FF08S3L-S4A11	820	750	1.25	46	S3-Long	Six Pack	Pin Fin
TG820FF08S3P-S4A11	820	750	1.25	46	S3	Six Pack	Pin Fin
TG950FF08S3-S4A01	950	750	1.2	46	S3	Six Pack	Pin Fin
TG950FF08S3L-S4A01	950	750	1.2	46	S3-Long	Six Pack	Pin Fin
TG400HF08L2-S4A00	400	750	1.35	28	L2	Half Bridge	Double Side Cooling
TG800HF08L4-S4A00	800	750	1.45	78	L4	Half Bridge	Double Side Cooling
TG600FF12S3-S4A01	600	1200	1.5	159	S3	Six Pack	Pin Fin
TG450HF12M1-S3A00	450	1200	1.65	78	M1	Half Bridge	Flat-Cu
TG600HF12M1-G3A00	600	1200	1.85	166	M1	Half Bridge	Flat-Cu


S3 Package

S0 Package

M1 Package

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