


1700V Full-SiC modules to replace IGBTs

Cadenazzo, Switzerland, 26.05.2020 – StarPower’s comprehensive range of 62mm SiC modules offers a smart alternative to existing IGBT solutions.

StarPower offers a range of Full-SiC half bridge modules in an industry standard 62mm package.

The following standard versions are available:

I_D	R_{dson}	R_{thJC}	Part Number	Package Outline
250A @ T_C 90°C	12.1 mOhm @ T_j 125°C	0.069 K/W	MD250HFR170C2S	
300A @ T_C 100°C	5.0 mOhm @ T_j 125°C	0.072 K/W	MD300HFC170C2S	

- Half bridge topologies with **SiC mosfets** using the **internal mosfet body diode** for **reverse conduction**
- **Sintering** in sample and volume production standard for all 62mm SiC modules to ensure **maximum reliability**
- **6.5kV insulation** voltage available on **request**

We understand that application requirements are often diverse. Some may require low conduction losses and low R_{th} , others low switching losses or an optimised cost vs. performance ratio for price sensitive applications. To ensure our customers can adopt the full potential of SiC to their needs, **StarPower offers full flexibility within the existing layout at no additional tooling charges:**

- **Lower I_D** and increased R_{dson} at the benefit of **lower module cost**
- **Improved switching losses** at higher R_{dson}

Please contact our [Sales team](#) for further details to find the best solution for your requirements.

StarPower Semiconductor Ltd. is a leading power module company located in Jiaxing China about 59 miles southeast of Shanghai. Founded in 2005, StarPower designs and manufactures IGBT modules and customized modules for applications in the area of inverters, welding machines, inductive heating, UPS, EV, solar/wind power and others in the power range of 10kW up to 1MW and more.

StarPower Europe AG with head office in Switzerland, Cadenazzo, was established in May 2014 as European branch of StarPower Semiconductor Ltd.