

**A comparison between three-phase conventional two-stage ac-dc and single-stage matrix converter approaches**  
**Mohseni, Parham; Emiliani, Pietro; Husev, Oleksandr; Vinnikov, Dmitri; Mackay, Laurens** 2023 IEEE 17th International  
Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p [https://doi.org/10.1109/CPE-  
POWERENG58103.2023.10227438](https://doi.org/10.1109/CPE-POWERENG58103.2023.10227438)