

PERFORMANCE OF INDUCTION HEATING TOPOLOGIES WITH VARIOUS SWITCHING SCHEMES

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Abstract- Induction appliances require power converters that with accurate power control and less switching losses. The modulation techniques play an important role in the designing of the power converters. The performance of different induction heating topologies is carried out with various switching strategies. The essential performances on the output power regulation and the output current are demonstrated through simulation studies. The topologies are designed for the same specifications and are compared in aspect of the different switching schemes.

Keywords—induction heating, high frequency resonant inverter, switching strategies