

## **LIST OF TABLES**

Table 2.1	Switching combination for 5 level DCMLI	12
Table 2.2	Switching combination for 5 level FCMLI	14
Table 2.3	Switching combination for 5 level CMLI	15
Table 2.4	Switching states for AHMLI	19
Table 2.5	Resulting output phase voltage	21
Table 2.6	Switching mode combinations	24
Table 2.7	Switching modes conversions for a hybrid clamped five-level inverter	24
Table 2.8	Switching combinations for five level output voltage	30
Table 3.1	Space Vectors, Switching States, and On-State Switches	57
Table 3.2	Modulation techniques summarized	60
Table 4.1	MATLAB simulation summary	90
Table 5.1	MATLAB simulation summary for HMLI	110
Table 6.1	Component List	118
Table 7.1	Component list	123
Table 8.1	Summary of output	145
Table A.1	Load regulation for 230V input	167
Table A.2	Load regulation for 210V input	167