

Nomenclature

Abbreviations

AC	Alternating current
DC	Direct current
MC	Matrix converter
THD	Total harmonic distortion
DMC	Direct matrix converter
IMC	Indirect matrix converter
VSI	Voltage source inverter
CSR	Current source rectifier
SMC	Sparse matrix converter
VSMC	Very sparse matrix converter
USMC	Ultra sparse matrix converter
NPC	Neutral point clamped inverter
VSV	Voltage space vector
CSV	Current space vector
SVM	Space vector modulation
PWM	Pulse width modulation

EMI	Electromagnetic interference
CZ-USMC	Integrated conventional Z source Ultra sparse matrix converter
QZ-USMC	Integrated quasi Z source Ultra sparse matrix converter
SZ-USMC	Integrated series Z source Ultra sparse matrix converter
SWZ-USMC	Integrated switched inductor Z source Ultra sparse matrix converter
SC	Switched capacitor network
SB	Switched boost network
MLI	Multilevel inverter
ST	Shoot through
NST	Non shoot through
USH	Upper shoot through
LSH	Lower shoot through