

## List of Abbreviation

Abbreviation	Full form
<i>APT</i>	Active Power Decoupling Technique
<i>AVVR</i>	Allowed Voltage Variation Range
<i>ALFRCD</i>	Active Low Frequency Ripple Control Device
<i>BJT</i>	Bipolar Junction Transistor
<i>BPF</i>	Band Pass Filter
<i>BPS – CVFS</i>	BPF-incorporated Capacitor Voltage Feedback Scheme
<i>CSI</i>	Current Source Inverter
<i>CPS – PAF</i>	Current Pulsation Smoothing-Parallel Active Filter
<i>CCM</i>	Continuous Current Mode
<i>CCT</i>	Control-oriented Compensation Technique
<i>CMC</i>	Current Mode Control
<i>CF – DHB</i>	Current Fed Duel Half Bridge
<i>DG</i>	Distributed Generator
<i>DCM</i>	Discontinuous Current Mode
<i>DLC</i>	Dual Loop Control
<i>DI</i>	Differential Inverter
<i>EES</i>	Electrical Energy Storage
<i>E – cap</i>	Electrolytic capacitor
<i>ESR</i>	Equivalent series resistance
<i>FB – RCR</i>	Full Bridge Ripple Current Reduction
<i>GaN</i>	Gallium Nitrate
<i>ISI</i>	Impedance source inverter
<i>ISMC</i>	Integral Sliding Mode Control
<i>IGBT</i>	Insulated-Gate Bipolar Transistor
<i>IGCT</i>	Insulated Gate Commuted Thyristor
<i>LFT</i>	Low Frequency Transformer
<i>LQR</i>	Linear Quadratic Regulator
<i>MPPT</i>	Maximum Power Point Tracking/Tracker
<i>MPP</i>	Maximum Power Point
<i>MOSFET</i>	Metal-Oxide Semiconductor Field Transistor
<i>MAF</i>	Moving Average Filter
<i>NF</i>	Notch Filter
<i>NF – CR</i>	Notch Filter inserted Current Reference
<i>NF – LCFSS</i>	Notch Filter inserted Load Current Feed Forward Scheme
<i>PR Controller</i>	Proportional Resonant Controller
<i>NSS</i>	Nonlinear Natural Switching Surface
<i>PE</i>	Power Electronics
<i>PFC</i>	Power Factor Correction
<i>PCC</i>	Point of Common Coupling
<i>PCS</i>	Power Conditioning System
<i>PLL</i>	Phase Locked Loop

Abbreviation	Full form
<i>PPT</i>	Passive Power Decoupling Technique
<i>q – ZSI</i>	quasi Z-Source Inverter
<i>q – SBI</i>	quasi-Switched Boost Inverter
<i>RE</i>	Renewable Energy
<i>SHC</i>	Second-order Harmonic Current
<i>SG</i>	Synchronous Generator
<i>SMC</i>	Sliding Mode Control
<i>SVPWM</i>	Space Vector Pulse Width Modulation
<i>THD</i>	Total Harmonic Distortion
<i>VMC</i>	Voltage Mode Control
<i>VSI</i>	Voltage Source Inverter
<i>WFC</i>	Waveform Control
<i>ZSI</i>	Z-Source Inverter