

List of Abbreviations

<i>Abbreviation</i>	<i>Full Form</i>
APF	Active Power Filter
BDC	Bidirectional DC/DC Buck-boost Converter
CC	Constant Current Charging
CCM	Continuous Conduction Mode
CMC	Current Mode Control
CPL	Constant Power Load
CPS	Constant Power Source
CV	Constant Voltage Charging
CVL	Constant Voltage Load
DCM	Discontinuous Conduction Mode
DCMG	DC Microgrid
DoD	Depth of Discharge
DPO	Digital Phosphorous Oscilloscope
DPS	Distributed Power System
EMS	Energy Management System
ESR	Equivalent Series Resistance
ESU	Energy Storage Unit
FC	Float Charging
FPGA	Field Programmable Gate Arrays
GPIC	General Purpose Inverter Control
HVDC	High Voltage Direct Current
IDA	Interconnection and Damping Assignment
LFR	Loss Free Resistance
MPPT	Maximum Power Point Tracker
NIRC	Negative Input Resistance Controller
NSSC	Nonlinear System Stabilizing Controller
ORDS	OPAL-RT Digital Simulator
PBC	Passivity Based Control
PEF	Potential Energy Function
PID	Proportional-derivative-integral

<i>Abbreviation</i>	<i>Full Form</i>
PMSM	Permanent Magnet Synchronous Motor
POLC	Point-of-load Converter
PV	Photo-voltaic
PWM	Pulse Width Modulation
RCP	Rapid Control Prototyping
RES	Renewable Energy Source
RVC	Reference Voltage Based Active Compensator
SFSC	State Feedforward Stabilizing Controller
SMC	Sliding Mode Control
SoC	State-of-charge
VMC	Voltage Mode Control
VSC	Voltage Source Converter
VSCS	Variable Structure Control System
VSSC	Variable Structure System Control